

**GOVERNMENT OF INDIA  
METEOROLOGICAL DEPARTMENT**

---

# **TABLES**

## **FOR THE REDUCTION OF METEOROLOGICAL OBSERVATIONS**

**Prepared by**

**G. C. SIMPSON, D.Sc.**

*Imperial Meteorologist*

**Under the direction of**

**GILBERT T. WALKER, M.A., Sc.D., F.R.S.**

*Director-General of Observatories*



**CALCUTTA  
SUPERINTENDENT GOVERNMENT PRINTING, INDIA  
1910**

IIA Lib.

# CONTENTS.

---

PREFACE	PAGE.
INTRODUCTION . . . . .	i
TABLE I.—For converting inches into millimetres . . . . .	1
„ II.—For converting millimetres into inches . . . . .	3
„ III.—For reducing the readings of barometers with brass scales to the temperature of the freezing point . . . . .	8
„ IV.—For reduction of barometer to standard gravity. Latitude correction . . . . .	14
„ V.—For reduction of barometer to standard gravity. Height correction . . . . .	16
„ VI.—For finding daily range of barometer . . . . .	16
„ VII.—For reduction of barometer to sea-level. Temperature and humidity term . . . . .	17
„ VIII.—For reduction of barometer to sea-level. Latitude term . . . . .	19
„ IX.—Vapour pressure in inches of mercury in the latitude of 45° at sea-level . . . . .	20
„ X.—For finding the absolute and relative humidities at the pressure of 29·7 inches from readings of wet and dry bulb thermometers . . . . .	23
„ XI.—For finding the absolute and relative humidities at the pressure of 27·7 inches from readings of wet and dry bulb thermometers . . . . .	37
„ XII.—For finding the absolute and relative humidities at the pressure of 25·8 inches from readings of wet and dry bulb thermometers . . . . .	51
„ XIII.—For finding the absolute and relative humidities at the pressure of 23·4 inches from readings of wet and dry bulb thermometers . . . . .	65
„ XIV.—For finding the absolute and relative humidities at the pressure of 19·7 inches from readings of wet and dry bulb thermometers . . . . .	77
„ XV.—For converting Fahrenheit scale into Centigrade . . . . .	90
„ XVI.—For converting Centigrade scale into Fahrenheit . . . . .	94

## PREFACE.

THE need of a new edition of the 'Tables for the reduction of meteorological observations in India,' which had been prepared by H. F. Blanford, affords an opportunity of improving our departmental methods of reduction by bringing them into complete agreement with those adopted by the International Meteorological Congress. The changes necessary in the tables prove to be extremely small. In connection with the reduction of the barometer to sea-level an attempt has been made to secure compactness in the tables without real loss of accuracy, by limiting the precision of the corrections to the degree justified by the data usually available.

GILBERT T. WALKER,

SIMLA ;

*July 29, 1909.*

## INTRODUCTION.

### TABLE I.

**For converting inches into millimetres.**

**T**HIS table is calculated from the relationship 1 inch = 25·39954 millimetres. It will be noticed that this and the following table vary somewhat from the similar ones given in the Smithsonian Tables, which have been calculated for a slightly different value of the relationship. The value used here, however, is the one adopted by the International Meteorological Congress.

### TABLE II.

**For converting millimetres into inches.**

This table is calculated from the relationship 1 millimetre = 0·03937079 inches.

### TABLE III.

**For reducing the readings of the barometer with brass scales to the temperature of the freezing point.**

*(From the International Meteorological Tables.)*

The above title is the one usually employed for this table, but it is somewhat inaccurate. It should really be "For the reduction of the readings of the barometer with brass scales to standard temperature" because the height of the mercury column is reduced to the corresponding height at 32°F. and the length of the brass scale is reduced to the corresponding length at 62°F.—the normal temperature of the English standard of length. It is not proposed to alter the title; for readings to which the corrections contained in this table have been applied are always spoken of as having been "reduced to 32°F.," and a reading corrected by this table is comparable with a reading taken with a barometer graduated according to the metric system and then truly reduced to 0°C.

The figures in the table vary somewhat from those given by Mr. Blanford inasmuch as the constants adopted by him differed slightly from those adopted by the International Committee. The constants now used are:—

Coefficient of expansion of mercury for one degree Fahrenheit = 0·0001010

Coefficient of expansion of brass for one degree Fahrenheit = 0·0000102

### TABLE IV.

**For reduction of barometer to standard gravity, latitude correction.**

*(From the International Meteorological Tables.)*

Formula used

$$\text{Correction} = H_1 - H = - H \times 0\cdot00259 \cos 2 \lambda.$$

where  $H$  = actual reading of barometer reduced to 32°F.

$H_1$  = corrected reading.

$\lambda$  = latitude.



**TABLE V.**

**For reduction of barometer to standard gravity, height correction.**

*(From the International Meteorological Tables.)*

Formula used

$$\text{Correction} = H_0 - H_1 = -H_1 \times 0.000000597 h.$$

$H_1$  = actual reading of barometer reduced to 32°F. and latitude 45°.

$H_0$  = corrected reading.

$h$  = height of station above sea-level in feet.

**TABLE VI.**

**Daily range of barometer.**

In tropical countries barometric pressure undergoes a very regular and somewhat large daily change. The change is of the form of a double wave having maxima at about 10 A.M. and 10 P.M. and minima at 4 A.M. and 4 P.M. The amplitude of these changes varies from place to place and decreases steadily from the equator to the poles. It is not possible to give a satisfactory table of this barometric daily range for small differences of latitude, but the numbers given in Table VI represent with very fair accuracy the mean daily range of the barometer within 25° of the equator.

The table has been calculated from long series of observations made at :—

Batavia (6°15'S.)	Rangoon (16°46'N.)
Trivandrum (8°31'N.)	Bombay (18°54'N.)
Trichinopoly (10°50' N.)	Chittagong (22°21'N.)
Aden (12°45'N.)	Calcutta (22°32'N.)
Madras (13°41')	Karachi (24°47'N.)

The time given is local mean time.

**TABLES VII AND VIII.**

**For the reduction of the barometer to sea-level.**

The complete expression for the difference in level between two stations in terms of meteorological data is given in the International Meteorological Tables as follows :—

$$Z = 60368.6 [1.00157 + 0.002039 (\theta - 32)] (1 - 0.378\phi/\eta)^{-1} \times (1 + 0.00259 \cos 2\lambda) \left(1 + \left(\frac{Z + 2z}{20902950}\right) \log H_0/H_1\right).$$

In which

$Z$  = difference in altitude between the two stations.

$z$  = height of the lower station above sea-level.

$\theta$  = mean temperature of the air column between the two stations.

$\phi$  = mean pressure of aqueous vapour in the air column between the two stations.

$\eta = \frac{1}{2} (H_0 + H_1).$

$\lambda$  = latitude of the station.

$H_1$ =height of the mercury column at the upper station, reduced to 32°F. and standard gravity.

$H_0$ =height of the mercury column at the lower station, reduced to 32°F. and standard gravity.

This can obviously be written

$$\log Z = \log A + \log B + \log C + \log D + \log (\log H_0 - \log H_1)$$

in which

$$\log A = \log 60368.6 [1.00157 + 0.002039 (\theta - 32)].$$

$$\log B = \log (1 - 0.378\phi/\eta)^{-1}.$$

$$\log C = \log (1 + 0.00259 \cos 2\lambda).$$

$$\log D = \log (1 + \frac{Z + 2z}{20902950}).$$

In this equation  $H_0$  and  $H_1$  are the true barometric pressures expressed in inches of mercury under standard conditions and therefore before a barometric reading is introduced into the formulae, it should be corrected for instrument error and reduced to 32°F. and normal gravity at sea-level at latitude 45°.

The term  $\log A$  corrects for variations in the weight of the column of air caused by varying temperature.

In a similar way  $\log B$  corrects for the variations caused by the changing amounts of aqueous vapour in the air column.

The correction  $\log C$  is necessary because the weight of a given column of air varies at different parts of the earth owing to the variation of gravity from the equator to the poles. In the reduction of the barometer to standard gravity at 45° latitude allowance is made for this variation of gravity in as far as it affects the weight of the mercury in the barometer; while  $\log C$  corrects for the variation of gravity as it affects the air. It is important to realise this difference, for the reduction of the barometer to constant gravity does not make the term  $\log C$  superfluous.

$\log D$  is a very small correction to allow for the variation of gravity with height above the earth's surface.

Before proceeding to describe the method of using the tables to solve this equation it will be as well to consider the accuracy with which the values of the variables can be determined.

(1) *The mean temperature of the air column.*—To obtain this accurately the air column would have to be investigated from top to bottom. Practically this is impossible in the majority of cases in which these tables will be used. It is sometimes possible however to measure the temperature at the top and the bottom of the column, and in this case the mean temperature of the column may be taken as being approximately the mean of the two measured temperatures. The mean temperature obtained in this way may in some cases be far removed from the actual, and the longer the air column the greater will be the possible difference. Even this method of approximation is not always available, for in reducing the pressure of an inland station to sea-level there is only the temperature at the station itself to work with. It is necessary in this case to assume some probable temperature gradient and from this to calculate the mean temperature of the air column.

Even with accurate temperature observations at one or two points in the air column we cannot expect to get more than an approximate value for the

mean temperature. In fact an accuracy of  $1^{\circ}\text{F.}$  is more than we are justified in expecting, and it would be useless, at least for ordinary barometric reductions, to calculate tables for subdivisions of  $1^{\circ}\text{F.}$

(2) *The mean humidity of the air column.*—The difficulties met with in determining the mean temperature of the air column apply also to the determination of its mean humidity. We have to depend generally on either one or two measurements of the humidity and there is the further difficulty that there is usually no regular rate of change of humidity with height.

The most convenient method of treating the humidity of the air column is to use the approximate temperature already found and with its aid and some probable relative humidity to calculate the mean vapour pressure. If this method is followed it is likely that no large error will be made: but at the same time it cannot be expected that the relative humidity so chosen will be nearer than 10 per cent. to the actual.

From this we see that the accuracy of any reductions made by the barometrical formulae is limited by that of the temperature and humidity determinations, and as these are not usually determined within  $1^{\circ}\text{F.}$  and 10 per cent. respectively, the accuracy of the reduction is limited by the errors produced by these amounts.

Table A shows the errors which would be produced in a reduction to sea-level by variations of  $1^{\circ}\text{F.}$  or 10 per cent. relative humidity.

TABLE A.

The change produced in the correction to sea-level by a change of  $1^{\circ}\text{F.}$  in the mean temperature and 10 per cent. in the rel. hum. of the air column.

Mean temperature of air column.	HEIGHT OF UPPER STATION.									
	500 FEET.		1,500 FEET.		2,500 FEET.		3,500 FEET.		4,500 FEET.	
	$1^{\circ}$	10 per cent.	$1^{\circ}$	10 per cent.	$1^{\circ}$	10 per cent.	$1^{\circ}$	10 per cent.	$1^{\circ}$	10 per cent.
Fahrenheit . . . . .	"	"	"	"	"	"	"	"	"	"
$50^{\circ}$ . . . . .	·001	·000	·003	·001	·006	·001	·008	·002	·010	·002
$60^{\circ}$ . . . . .	·001	·000	·003	·001	·005	·002	·008	·003	·010	·003
$70^{\circ}$ . . . . .	·001	·001	·003	·002	·005	·003	·007	·004	·009	·005
$80^{\circ}$ . . . . .	·001	·001	·003	·002	·005	·004	·007	·005	·009	·007
$90^{\circ}$ . . . . .	·001	·001	·003	·003	·005	·005	·007	·007	·009	·006

From this table it will be seen that with a mean temperature of the air column of  $70^{\circ}\text{F.}$  an error of  $1^{\circ}\text{F.}$  in the temperature determination would produce an error of ·009" in the reduction to sea-level correction of a barometer 4,500 feet above sea-level, while an error of ·005" would be produced by an error of 10 per cent. in the relative humidity determination.

In the humidity term ( $\log B$ ) the value  $\frac{1}{2}(H_0 + H)$  enters as a variable. In the table in this book it has however been treated as a constant and put equal to  $28\cdot5''$ . The following shows the errors produced in an extreme case:—

Consider a station 15,000 feet above sea-level at the equator. Assume the true mean temperature of the air column to be  $70^{\circ}\text{F.}$ , the true mean humidity

50 per cent. and the pressure at the station to be 17.731". The true barometric pressure at sea-level would then be 30.00. If in these circumstances the observations are reduced with a formulae taking  $\frac{1}{2}(H_0 + H_1)$  to be 28.5" instead of its correct value 23.9" the resulting error would only be .015" which is no more than would be caused by any of the following errors in observation :—

Reading of barometer at station . . . . .	.009"
Determination of mean air temperature . . . . .	0.4° F.
Determination of mean air humidity . . . . .	8 per cent.

From the smallness of these errors it is obvious that the constant value is sufficiently accurate for all practical purposes.

Returning now to the complete equation it may be pointed out that the term  $\log D$  introduces a correction which is in every case of less magnitude than the error which would result from not knowing the mean temperature of the air column to 1°F. ; hence it can be neglected in all practical work. This leaves the equation in the form—

$$\log Z = \log A + \log B + \log C + \log (\log H_0 - \log H_1).$$

In Tables VII and VIII the values of  $\log A + \log B$  and  $\log C$  are given for different values of the variables, and the tables are to be used in the following way :—

(1) *To find the difference in height between two stations at which simultaneous barometric readings are taken.*—The two readings must first be reduced to 32°F and to normal gravity by means of the numbers given in Tables II and III\*; let  $H_0$  and  $H_1$  be the two reduced readings. The value of  $\log H_0$  and  $\log H_1$  can be obtained from any suitable book of logarithms. Having taken the difference between these two logarithms, i.e.,  $\log H_0 - \log H_1$  the logarithm tables must be again used to find the value  $\log (\log H_0 - \log H_1)$ . From Table VII the value of  $\log A + \log B$  for the mean temperature and humidity, and from Table VIII the value of  $\log C$  corresponding to the latitude of the stations can be found. In this way we obtain the value of  $\log A + \log B + \log C + \log (\log H_0 - \log H_1)$ , and as this is equal to  $\log Z$  the value of  $Z$  can be found from the logarithm tables.

#### EXAMPLE.

*To find the difference of height between Leh and Lahore from the following data.*

	Leh.	Lahore.
Height of barometer reduced to 32° F. and constant gravity . . . . .	19.677"	28.813"
Temperature of air . . . . .	55°F.	91°F.
Humidity of air . . . . .	41 per cent.	54 per cent.
Latitude . . . . .	33°	

\* If the barometric heights are determined by means of an aneroid barometer properly compensated for temperature the readings do not require to be corrected for temperature or gravity. In this case the barometer formula becomes  $\log Z + .00068 = \log A + \log B + \log C + \log (\log H_0 - \log H_1)$  in which  $Z, A, B$ , etc., have the same meaning and value as in the formula for a mercury barometer.

From this we have approximately

$$\begin{aligned}\text{Mean temperature of air column} & \quad \quad \quad = 73^{\circ}\text{F.} \\ \text{Mean humidity of air column} & \quad \quad \quad = 48 \text{ per cent.}\end{aligned}$$

Hence from Table VII we obtain

$$\log A + \log B = 4.8186 \quad \quad \quad (a)$$

and from Table VIII

$$\log C = .0005 \quad \quad \quad (b)$$

Also from logarithm tables we have

$$\begin{aligned}\log H_0 &= 1.45959 \\ \log H_1 &= 1.29396 ;\end{aligned}$$

hence

$$\log H_0 - \log H_1 = .16563 \quad \quad \quad (c)$$

and

$$\log (\log H_0 - \log H_1) = \bar{1}.2191$$

We now add together (a), (b) and (c), and the sum gives  $\log Z$

$$\begin{aligned}\log A + \log B &= 4.8186 \\ \log C &= .0005 \\ \log (\log H_0 - \log H_1) &= \bar{1}.2192 \\ \hline \log Z &= 4.0382\end{aligned}$$

from which logarithm tables give

$$Z = 10,920 \text{ feet.}$$

The actual difference in height between Leh and Lahore . . . = 10,900 feet.

(2) *For the reduction of the barometer to sea-level* we proceed as follows:—

The equation may be written

$$\log Z - (\log A + \log B + \log C) = \log (\log H_0 - \log H_1)$$

in which  $H_0$  is the sea-level reading corresponding to  $H_1$  at a height  $Z$  above sea-level.

From the tables we can find the numerical value of the left hand side of the equation; let it be  $=X$

Then we have

$$X = \log (\log H_0 - \log H_1)$$

Now by means of the logarithm table find the number  $Y$  for which

$$\log Y = X$$

Then

$$\log Y = \log (\log H_0 - \log H_1)$$

or

$$Y = \log H_0 - \log H_1$$

and finally

$$\log H_0 = Y + \log H_1$$

## EXAMPLE.

*To reduce a reading of the barometer made at Bangalore to sea-level—*

Bangalore height above sea-level . . . . .	3,021 feet.
Bangalore latitude . . . . .	13°
Barometer reading . . . . .	26·835"
Barometer correction . . . . .	+ ·006"
Attached thermometer . . . . .	60°
Temperature of air . . . . .	56°
Humidity of air . . . . .	80 per cent.

The barometer must first be corrected for—

(a) instrument error . . . . .	+ ·006
(b) temperature of attached thermometer (Table III) . . . . .	— ·076
(c) latitude of station 13° (Table IV) . . . . .	— ·063
Total correction . . . . .	— ·133

Hence

$$\begin{aligned} H &= 26·835 - ·133 \\ &= 26·702 \end{aligned}$$

Assuming a temperature gradient of 1°F for every 300 feet of ascent we have

$$\begin{aligned} \text{mean temperature} &= 56 + \frac{1}{2} \frac{3·021}{300} = 61° \\ &\text{of air column} \end{aligned}$$

Hence

$$\begin{aligned} \log Z &= 3·4802 \\ \log A + \log B &= 4·8089 \\ \log C &= ·0011 \\ \log H &= 1·4265 \end{aligned}$$

Thus

$$\begin{aligned} \log Z - (\log A + \log B + \log C) &= 2·6702 = \log Y \\ \text{i.e.,} \quad Y &= ·04680 \end{aligned}$$

Therefore

$$\log H_0 = Y + \log H = 1·47334$$

and

$$H_0 = 29·740$$

When barometric readings from a given station have to be constantly reduced it is advisable to make once for all a table giving the correction to be applied to the barometer for all the possible combinations of the variables.

The barometric tables given in this book and used as indicated above satisfy the following resolution passed at the International Meteorological Conference at Innsbruck on the 15th September 1905.

“ Directors of meteorological networks are requested to have the reduction of barometric readings to mean sea-level made in such a manner that the final results, however arrived at, may not differ from the results which would be obtained from the complete formula of the International Tables, by more than 0.3 mm. (0.012 inch), on the assumptions (1) that the temperature and the humidity at the time of observing be entered in the formula, and (2) that the vertical temperature gradient be taken as 0°.5C. per 100 metres (1° F. per 300 ft.).”

### TABLE IX.

#### Tension of Aqueous Vapour.

This table has been taken from the International Tables and gives the tension as measured by a column of mercury at standard temperature and gravity. It differs from Mr. Blanford's table in the previous edition of this work in that Mr. Blanford calculated his tables for gravity at the mean latitude of India, 22°; the differences are however very small.

### TABLES X TO XIV.

#### Psychrometer Tables.

A pair of wet and dry bulb thermometers has been found to afford the most satisfactory method yet devised for determining the humidity of the air for meteorological purposes. Regnault developed an expression for the relationship between the wet and dry bulb temperatures and the pressure of the aqueous vapour. August's modification of this expression is as follows:—

For temperatures of the *wet* bulb below 32°,

$$x = f' - \frac{.480 (t - t')}{1240.2 - t'} h$$

and for temperatures of the *wet* bulb above 32°

$$x = f' - \frac{.480 (t - t')}{1130 - t'} h$$

wherein  $t$  and  $t'$  are the temperatures of the dry and wet bulb thermometers respectively in Fahr. degrees,  $f'$  the tension of vapour at temperature  $t'$ ,  $h$  the reading of the barometer in inches, and  $x$  the tension of the vapour present in the air at the time of the observation.

These equations were used by Mr. Blanford when compiling the humidity tables for the previous edition of this work; and for reasons to be stated later the expressions have been retained. The new humidity tables are however slightly different from those given by Mr. Blanford because the vapour pressure has been expressed in inches of mercury at latitude 45° instead of 22° as adopted by him.

This has necessitated a complete recalculation of the tables, and they have also been extended to include all possible observations except those taken in extreme arctic climates or at heights greater than 15,000 feet.

In these tables no account has been taken of the effect of wind upon the reading of the wet bulb thermometer. It is well known that the readings of the wet bulb thermometer depend on the strength of the wind to which it is exposed as well as on the humidity, so that with a given humidity the difference between the readings of the wet and dry bulb thermometers is less in still air than when the instruments are exposed to a wind.

Recent work has led Pernter to the following modifications of Regnault's equation for temperatures of the wet bulb higher than 32° F:—

- |                           |  |
|---------------------------|--|
| (1) calm . . . . .        | $x = f' - .00067 (t - t') (1 + \frac{t' - 32}{1098}) h$  |
| (2) light wind . . . . .  | $x = f' - .00044 (t - t') (1 + \frac{t' - 32}{1098}) h$  |
| (3) strong wind . . . . . | $x = f' - .000364 (t - t') (1 + \frac{t' - 32}{1098}) h$ |

For accurate determinations of the humidity it is therefore necessary to select from these equations the one appropriate to the wind conditions at the time of observation, or, what is much better, to produce a strong wind about the bulbs of the thermometers and to use the last equation. For the latter purpose Assmann has designed a psychrometer in which air is rapidly drawn past the bulbs of the two thermometers by means of a fan driven by clockwork. This instrument is by far the most accurate yet developed for determining the humidity of the air. Such instruments however are expensive and need careful handling; and the same applies to a greater or less extent to other forms of psychrometers designed to be used with an artificial wind. For this reason, amongst others, it is unlikely that the simple wet and dry bulb psychrometer will ever be replaced in ordinary meteorological work in which very accurate measurements of the humidity are not wanted.

If the strength of the current of air to which the ordinary wet and dry bulb psychrometer is exposed is known, the observations can be reduced by the appropriate one of Pernter's formulae. In most cases however the strength of the wind is not known and therefore the most likely formula must be used, which is obviously the one for light winds. August's equation and the second one of Pernter's are almost exactly the same, as a simple algebrical transformation will show. It is for this reason that no change has been made in the expression chosen by Mr. Blanford for the compilation of the humidity tables. It is however important for the users of the tables to understand that they are not suitable for use with any form of artificially ventilated psychrometers, and that the tables are only correct when the instruments at the time of observation have been exposed to a gentle breeze.

## TABLES XV AND XVI.

For converting Fahrenheit degrees to the Centigrade and *vice versa*,<sup>^</sup>

These tables have been calculated from the relationship

$$9 C = 5 (F - 32).$$



# BAROMETER TABLES—I.

Inches into Millimetres.

1 inch = 25.39954 mm.

Inches	·00	·01	·02	·03	·04	·05	·06	·07	·08	·09	
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	
·0	·00	·25	·51	·76	1·02	1·27	1·52	1·78	2·03	2·29	
·1	2·54	2·79	3·05	3·30	3·56	3·81	4·06	4·32	4·57	4·83	
·2	5·08	5·33	5·59	5·84	6·10	6·35	6·60	6·86	7·11	7·37	
·3	7·62	7·87	8·13	8·38	8·64	8·89	9·14	9·40	9·65	9·91	
·4	10·16	10·41	10·67	10·92	11·18	11·43	11·68	11·94	12·19	12·45	
·5	12·70	12·95	13·21	13·46	13·72	13·97	14·22	14·48	14·73	14·99	
·6	15·24	15·49	15·75	16·00	16·26	16·51	16·76	17·02	17·27	17·53	
·7	17·78	18·03	18·29	18·54	18·80	19·05	19·30	19·56	19·81	20·07	
·8	20·32	20·57	20·83	21·08	21·34	21·59	21·84	22·10	22·35	22·61	
·9	22·86	23·11	23·37	23·62	23·88	24·13	24·38	24·64	24·89	25·15	
1·0	25·40	25·65	25·91	26·16	26·42	26·67	26·92	27·18	27·43	27·69	
23·00	584·19	584·44	584·70	584·95	585·21	585·46	585·71	585·97	586·22	586·48	
23·10	586·73	586·98	587·24	587·49	587·75	588·00	588·25	588·51	588·76	589·02	
23·20	589·27	589·52	589·78	590·03	590·29	590·54	590·79	591·05	591·30	591·56	
23·30	591·81	592·06	592·32	592·57	592·83	593·08	593·33	593·59	593·84	594·10	
23·40	594·35	594·60	594·86	595·11	595·37	595·62	595·87	596·13	596·38	596·64	
23·50	596·89	597·14	597·40	597·65	597·91	598·16	598·41	598·67	598·92	599·18	
23·60	599·43	599·68	599·94	600·19	600·45	600·70	600·95	601·21	601·46	601·72	
23·70	601·97	602·22	602·48	602·73	602·99	603·24	603·49	603·75	604·00	604·26	
23·80	604·51	604·76	605·02	605·27	605·53	605·78	606·03	606·29	606·54	606·80	
23·90	607·05	607·30	607·56	607·81	608·06	608·32	608·57	608·83	609·08	609·33	
24·00	609·59	609·84	610·10	610·35	610·60	610·86	611·11	611·37	611·62	611·87	
24·10	612·13	612·39	612·64	612·89	613·14	613·40	613·65	613·91	614·16	614·41	
24·20	614·67	614·92	615·18	615·43	615·68	615·94	616·19	616·45	616·70	616·95	
24·30	617·21	617·46	617·72	617·97	618·22	618·48	618·73	618·99	619·24	619·49	
24·40	619·75	620·00	620·26	620·51	620·76	621·02	621·27	621·53	621·78	622·03	
24·50	622·29	622·54	622·80	623·05	623·30	623·56	623·81	624·07	624·32	624·57	
24·60	624·83	625·08	625·34	625·59	625·84	626·10	626·35	626·61	626·86	627·11	
24·70	627·37	627·62	627·88	628·13	628·38	628·64	628·89	629·15	629·40	629·65	
24·80	629·91	630·16	630·42	630·67	630·92	631·18	631·43	631·69	631·94	632·19	
24·90	632·45	632·70	632·96	633·21	633·46	633·72	633·97	634·23	634·48	634·73	
25·00	634·99	635·24	635·50	635·75	636·00	636·26	636·51	636·77	637·02	637·27	
25·10	637·53	637·78	638·04	638·29	638·54	638·80	639·05	639·31	639·56	639·81	
25·20	640·07	640·32	640·58	640·83	641·08	641·34	641·59	641·85	642·10	642·35	
25·30	642·61	642·86	643·12	643·37	643·62	643·88	644·13	644·39	644·64	644·89	
25·40	645·15	645·40	645·66	645·91	646·16	646·42	646·67	646·93	647·18	647·43	
25·50	647·69	647·94	648·20	648·45	648·70	648·96	649·21	649·47	649·72	649·97	
25·60	650·23	650·48	650·74	650·99	651·24	651·50	651·75	652·01	652·26	652·51	
25·70	652·77	653·02	653·28	653·53	653·78	654·04	654·29	654·55	654·80	655·05	
25·80	655·31	655·56	655·82	656·07	656·32	656·58	656·83	657·09	657·34	657·59	
25·90	657·85	658·10	658·36	658·61	658·86	659·12	659·37	659·63	659·88	660·13	
Proportional Parts.		Inch.	0·001	0·002	0·003	0·004	0·005	0·006	0·007	0·008	0·009
		mm.	0·025	0·051	0·076	0·102	0·127	0·152	0·178	0·203	0·229

# BAROMETER TABLES—I.

Inches into Millimetres.

1 inch = 25.39954 mm.

Inches.	'00	'01	'02	'03	'04	'05	'06	'07	'08	'09
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
26.00	660.89	660.64	660.90	661.15	661.40	661.66	661.91	662.17	662.42	662.67
26.10	662.93	663.18	663.44	663.69	663.94	664.20	664.45	664.71	664.96	665.21
26.20	665.47	665.72	665.98	666.23	666.48	666.74	666.99	667.25	667.50	667.75
26.30	668.01	668.26	668.52	668.77	669.02	669.28	669.53	669.79	670.04	670.29
26.40	670.55	670.80	671.06	671.31	671.56	671.82	672.07	672.33	672.58	672.83
26.50	673.09	673.34	673.60	673.85	674.10	674.36	674.61	674.87	675.12	675.37
26.60	675.63	675.88	676.14	676.39	676.64	676.90	677.15	677.41	677.66	677.91
26.70	678.17	678.42	678.68	678.93	679.18	679.44	679.69	679.95	680.20	680.45
26.80	680.71	680.96	681.22	681.47	681.72	681.98	682.23	682.49	682.74	682.99
26.90	683.25	683.50	683.76	684.01	684.26	684.52	684.77	685.03	685.28	685.53
27.00	685.79	686.04	686.30	686.55	686.80	687.06	687.31	687.56	687.82	688.07
27.10	688.33	688.58	688.84	689.09	689.34	689.60	689.85	690.11	690.36	690.61
27.20	690.87	691.12	691.38	691.63	691.88	692.14	692.39	692.65	692.90	693.15
27.30	693.41	693.66	693.92	694.17	694.42	694.68	694.93	695.19	695.44	695.69
27.40	695.95	696.20	696.46	696.71	696.96	697.22	697.47	697.73	697.98	698.23
27.50	698.49	698.74	699.00	699.25	699.50	699.76	700.01	700.27	700.52	700.77
27.60	701.03	701.28	701.54	701.79	702.04	702.30	702.55	702.81	703.06	703.31
27.70	703.57	703.82	704.08	704.33	704.58	704.84	705.09	705.35	705.60	705.85
27.80	706.11	706.36	706.62	706.87	707.12	707.38	707.63	707.89	708.14	708.39
27.90	708.65	708.90	709.16	709.41	709.66	709.92	710.17	710.43	710.68	710.93
28.00	711.19	711.44	711.70	711.95	712.20	712.46	712.71	712.97	713.22	713.47
28.10	713.73	713.98	714.24	714.49	714.74	715.00	715.25	715.51	715.76	716.01
28.20	716.27	716.52	716.78	717.03	717.28	717.54	717.79	718.04	718.30	718.55
28.30	718.81	719.06	719.31	719.57	719.82	720.08	720.33	720.58	720.84	721.09
28.40	721.35	721.60	721.85	722.11	722.36	722.62	722.87	723.12	723.38	723.63
28.50	723.89	724.14	724.39	724.65	724.90	725.16	725.41	725.66	725.92	726.17
28.60	726.43	726.68	726.93	727.19	727.44	727.70	727.95	728.20	728.46	728.71
28.70	728.97	729.22	729.47	729.73	729.98	730.24	730.49	730.74	731.00	731.25
28.80	731.51	731.76	732.01	732.27	732.52	732.78	733.03	733.28	733.54	733.79
28.90	734.05	734.30	734.55	734.81	735.06	735.32	735.57	735.82	736.08	736.33
29.00	736.59	736.84	737.09	737.35	737.60	737.86	738.11	738.36	738.62	738.87
29.10	739.13	739.38	739.63	739.89	740.14	740.40	740.65	740.90	741.16	741.41
29.20	741.67	741.92	742.17	742.43	742.68	742.94	743.19	743.44	743.70	743.95
29.30	744.21	744.46	744.71	744.97	745.22	745.48	745.73	745.98	746.24	746.49
29.40	746.75	747.00	747.25	747.51	747.76	748.02	748.27	748.52	748.78	749.03
29.50	749.29	749.54	749.79	750.05	750.30	750.56	750.81	751.06	751.32	751.57
29.60	751.83	752.08	752.33	752.59	752.84	753.10	753.35	753.60	753.86	754.11
29.70	754.37	754.62	754.87	755.13	755.38	755.64	755.89	756.14	756.40	756.65
29.80	756.91	757.16	757.41	757.67	757.92	758.18	758.43	758.68	758.94	759.19
29.90	759.45	759.70	759.95	760.21	760.46	760.72	760.97	761.22	761.48	761.73
Proportional Parts.	Inch.	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
	mm.	0.025	0.051	0.076	0.102	0.127	0.152	0.178	0.203	0.229

## BAROMETER TABLES—I.

Inches into Millimetres.

*1 inch = 25·39954 mm.*

Inches.	·00	·01	·02	·03	·04	·05	·06	·07	·08	·09
30·00	761·99	762·24	762·49	762·75	763·00	763·26	763·51	763·76	764·02	764·27
30·10	764·53	764·78	765·03	765·29	765·54	765·80	766·05	766·30	766·56	766·81
30·20	767·07	767·32	767·57	767·83	768·08	768·34	768·59	768·84	769·10	769·35
30·30	769·61	769·86	770·11	770·37	770·62	770·88	771·13	771·38	771·64	771·09
30·40	772·15	772·40	772·65	772·91	773·16	773·42	773·67	773·92	774·18	774·43
30·50	774·69	774·94	775·19	775·45	775·70	775·96	776·21	776·46	776·72	776·97
30·60	777·23	777·48	777·73	777·99	778·24	778·50	778·75	779·03	779·26	779·51
30·70	779·77	780·02	780·27	780·53	780·78	781·04	781·29	781·54	781·80	782·05
30·80	782·31	782·56	782·81	783·07	783·32	783·58	783·83	784·08	784·34	784·59
30·90	784·85	785·10	785·35	785·61	785·86	786·12	786·37	786·62	786·88	787·13
31·00	787·39									
Proportional Parts.	Inch mm.	0·001 0·025	0·002 0·051	0·003 0·076	0·004 0·102	0·005 0·127	0·006 0·152	0·007 0·178	0·008 0·203	0·009 0·229

## BAROMETER TABLES—II.

Millimetres into inches.

*1 mm. = 0·03937079 inches.*

Milli- metres.	·0	·1	·2	·3	·4	·5	·6	·7	·8	·9
0	0·000	0·004	0·008	0·012	0·016	0·020	0·024	0·028	0·032	0·035
1	·039	·043	·047	·051	·055	·059	·063	·067	·071	·075
2	·079	·083	·087	·091	·095	·098	·102	·106	·110	·114
3	·118	·122	·126	·130	·134	·138	·142	·146	·150	·154
4	·158	·161	·165	·169	·173	·177	·181	·185	·189	·193
5	·197	·201	·205	·209	·213	·217	·221	·224	·228	·232
6	·236	·240	·244	·248	·252	·256	·260	·264	·268	·272
7	·276	·280	·284	·287	·291	·295	·299	·303	·307	·311
8	·315	·319	·323	·327	·331	·335	·339	·343	·347	·350
9	·354	·358	·362	·366	·370	·374	·378	·382	·386	·390
10	·394	·398	·402	·406	·410	·413	·417	·421	·425	·429
11	·433	·437	·441	·445	·449	·453	·457	·461	·465	·469
12	·472	·476	·480	·484	·488	·492	·496	·500	·504	·508
13	·512	·516	·520	·524	·528	·532	·535	·539	·543	·547
14	·551	·555	·559	·563	·567	·571	·575	·579	·583	·587
15	·591	·595	·598	·602	·606	·610	·614	·618	·622	·626
16	·630	·634	·638	·642	·646	·650	·654	·658	·661	·665
17	·669	·673	·677	·681	·685	·689	·693	·697	·701	·705
18	·709	·713	·717	·721	·724	·728	·732	·736	·740	·744
19	·748	·752	·756	·760	·764	·768	·772	·776	·780	·784
20	·787	·791	·795	·799	·803	·807	·811	·815	·819	·823

# BAROMETER TABLES—II.

Millimetres into inches.

1 mm. = 0.03937079 inches.

Millimetres.	·0	·1	·2	·3	·4	·5	·6	·7	·8	·9
Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
630	24.804	24.807	24.811	24.815	24.819	24.823	24.827	24.831	24.835	24.839
631	24.843	24.847	24.851	24.855	24.859	24.863	24.867	24.871	24.874	24.878
632	24.882	24.886	24.890	24.894	24.898	24.902	24.906	24.910	24.914	24.918
633	24.922	24.926	24.930	24.934	24.937	24.941	24.945	24.949	24.953	24.957
634	24.961	24.965	24.969	24.973	24.977	24.981	24.985	24.989	24.993	24.997
635	25.000	25.004	25.008	25.012	25.016	25.020	25.024	25.028	25.032	25.036
636	25.040	25.044	25.048	25.052	25.056	25.060	25.063	25.067	25.071	25.075
637	25.079	25.083	25.087	25.091	25.095	25.099	25.103	25.107	25.111	25.115
638	25.119	25.123	25.126	25.130	25.134	25.138	25.142	25.146	25.150	25.154
639	25.158	25.162	25.166	25.170	25.174	25.178	25.182	25.185	25.189	25.193
640	25.197	25.201	25.205	25.209	25.213	25.217	25.221	25.225	25.229	25.233
641	25.237	25.241	25.245	25.248	25.252	25.256	25.260	25.264	25.268	25.272
642	25.276	25.280	25.284	25.288	25.292	25.296	25.300	25.304	25.308	25.311
643	25.315	25.319	25.323	25.327	25.331	25.335	25.339	25.343	25.347	25.351
644	25.355	25.359	25.363	25.367	25.371	25.374	25.378	25.382	25.386	25.390
645	25.394	25.398	25.402	25.406	25.410	25.414	25.418	25.422	25.426	25.430
646	25.434	25.437	25.441	25.445	25.449	25.453	25.457	25.461	25.465	25.469
647	25.473	25.477	25.481	25.485	25.489	25.493	25.497	25.500	25.504	25.508
648	25.512	25.516	25.520	25.524	25.528	25.532	25.536	25.540	25.544	25.548
649	25.552	25.556	25.560	25.563	25.567	25.571	25.575	25.579	25.583	25.587
650	25.591	25.595	25.599	25.603	25.607	25.611	25.615	25.619	25.623	25.626
651	25.630	25.634	25.638	25.642	25.646	25.650	25.654	25.658	25.662	25.666
652	25.670	25.674	25.678	25.682	25.686	25.689	25.693	25.697	25.701	25.705
653	25.709	25.713	25.717	25.721	25.725	25.729	25.733	25.737	25.741	25.745
654	25.748	25.752	25.756	25.760	25.764	25.768	25.772	25.776	25.780	25.784
655	25.788	25.792	25.796	25.800	25.804	25.808	25.811	25.815	25.819	25.823
656	25.827	25.831	25.835	25.839	25.843	25.847	25.851	25.855	25.859	25.863
657	25.867	25.871	25.874	25.878	25.882	25.886	25.890	25.894	25.898	25.902
658	25.906	25.910	25.914	25.918	25.922	25.926	25.930	25.934	25.937	25.941
659	25.945	25.949	25.953	25.957	25.961	25.965	25.969	25.973	25.977	25.981
660	25.985	25.989	25.993	25.997	26.000	26.004	26.008	26.012	26.016	26.020
661	26.024	26.028	26.032	26.036	26.040	26.044	26.048	26.052	26.056	26.060
662	26.063	26.067	26.071	26.075	26.079	26.083	26.087	26.091	26.095	26.099
663	26.103	26.107	26.111	26.115	26.119	26.123	26.126	26.130	26.134	26.138
664	26.142	26.146	26.150	26.154	26.158	26.162	26.166	26.170	26.174	26.178
665	26.182	26.186	26.189	26.193	26.197	26.201	26.205	26.209	26.213	26.217
666	26.221	26.225	26.229	26.233	26.237	26.241	26.245	26.249	26.252	26.256
667	26.260	26.264	26.268	26.272	26.276	26.280	26.284	26.288	26.292	26.296
668	26.300	26.304	26.308	26.311	26.315	26.319	26.323	26.327	26.331	26.335
669	26.339	26.343	26.347	26.351	26.355	26.359	26.363	26.367	26.371	26.374

# BAROMETER TABLES—II.

Millimetres into inches.

1 mm. = 0.03937079 inches.

Millimetres.	'0	'1	'2	'3	'4	'5	'6	'7	'8	'9
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
670	26.378	26.382	26.386	26.390	26.394	26.398	26.402	26.406	26.410	26.414
671	26.418	26.422	26.426	26.430	26.434	26.437	26.441	26.445	26.449	26.453
672	26.457	26.461	26.465	26.469	26.473	26.477	26.481	26.485	26.489	26.493
673	26.497	26.500	26.504	26.508	26.512	26.516	26.520	26.524	26.528	26.532
674	26.536	26.540	26.544	26.548	26.552	26.556	26.560	26.563	26.567	26.571
675	26.575	26.579	26.583	26.587	26.591	26.595	26.599	26.603	26.607	26.611
676	26.615	26.619	26.623	26.626	26.630	26.634	26.638	26.642	26.646	26.650
677	26.654	26.658	26.662	26.666	26.670	26.674	26.678	26.682	26.686	26.689
678	26.693	26.697	26.701	26.705	26.709	26.713	26.717	26.721	26.725	26.729
679	26.733	26.737	26.741	26.745	26.749	26.752	26.756	26.760	26.764	26.768
680	26.772	26.776	26.780	26.784	26.788	26.792	26.796	26.800	26.804	26.808
681	26.812	26.815	26.819	26.823	26.827	26.831	26.835	26.839	26.843	26.847
682	26.851	26.855	26.859	26.863	26.867	26.871	26.875	26.878	26.882	26.886
683	26.890	26.894	26.898	26.902	26.906	26.910	26.914	26.918	26.922	26.926
684	26.930	26.934	26.937	26.941	26.945	26.949	26.953	26.957	26.961	26.965
685	26.969	26.973	26.977	26.981	26.985	26.989	26.993	26.997	27.000	27.004
686	27.008	27.012	27.016	27.020	27.024	27.028	27.032	27.036	27.040	27.044
687	27.048	27.052	27.056	27.060	27.063	27.067	27.071	27.075	27.079	27.083
688	27.087	27.091	27.095	27.099	27.103	27.107	27.111	27.115	27.119	27.123
689	27.126	27.130	27.134	27.138	27.142	27.146	27.150	27.154	27.158	27.162
690	27.166	27.170	27.174	27.178	27.182	27.186	27.189	27.193	27.197	27.201
691	27.205	27.209	27.213	27.217	27.221	27.225	27.229	27.233	27.237	27.241
692	27.245	27.249	27.252	27.256	27.260	27.264	27.268	27.272	27.276	27.280
693	27.284	27.288	27.292	27.296	27.300	27.304	27.308	27.312	27.315	27.319
694	27.323	27.327	27.331	27.335	27.339	27.343	27.347	27.351	27.355	27.359
695	27.363	27.367	27.371	27.375	27.378	27.382	27.386	27.390	27.394	27.398
696	27.402	27.406	27.410	27.414	27.418	27.422	27.426	27.430	27.434	27.438
697	27.441	27.445	27.449	27.453	27.457	27.461	27.465	27.469	27.473	27.477
698	27.481	27.485	27.489	27.493	27.497	27.500	27.504	27.508	27.512	27.516
699	27.520	27.524	27.528	27.532	27.536	27.540	27.544	27.548	27.552	27.556
700	27.560	27.563	27.567	27.571	27.575	27.579	27.583	27.587	27.591	27.595
701	27.599	27.603	27.607	27.611	27.615	27.619	27.623	27.626	27.630	27.634
702	27.638	27.642	27.646	27.650	27.654	27.658	27.662	27.666	27.670	27.674
703	27.678	27.682	27.686	27.689	27.693	27.697	27.701	27.705	27.709	27.713
704	27.717	27.721	27.725	27.729	27.733	27.737	27.741	27.745	27.749	27.752
705	27.756	27.760	27.764	27.768	27.772	27.776	27.780	27.784	27.788	27.792
706	27.796	27.800	27.804	27.808	27.812	27.815	27.819	27.823	27.827	27.831
707	27.835	27.839	27.843	27.847	27.851	27.855	27.859	27.863	27.867	27.871
708	27.875	27.878	27.882	27.886	27.890	27.894	27.898	27.901	27.906	27.910
709	27.914	27.918	27.922	27.926	27.930	27.934	27.938	27.941	27.945	27.949

# BAROMETER TABLES—II.

Millimetres into inches.  
1 mm. = 0.03937079 inches.

Millimetres.	0	1	2	3	4	5	6	7	8	9
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
710	27.953	27.957	27.961	27.965	27.969	27.973	27.977	27.981	27.985	27.989
711	27.993	27.997	28.001	28.004	28.008	28.012	28.016	28.020	28.024	28.028
712	28.032	28.036	28.040	28.044	28.048	28.052	28.056	28.060	28.063	28.067
713	28.071	28.075	28.079	28.083	28.087	28.091	28.095	28.099	28.103	28.107
714	28.111	28.115	28.119	28.123	28.126	28.130	28.134	28.138	28.142	28.146
715	28.150	28.154	28.158	28.162	28.166	28.170	28.174	28.178	28.182	28.186
716	28.189	28.193	28.197	28.201	28.205	28.209	28.213	28.217	28.221	28.225
717	28.229	28.233	28.237	28.241	28.245	28.249	28.252	28.256	28.260	28.264
718	28.268	28.272	28.276	28.280	28.284	28.288	28.292	28.296	28.300	28.304
719	28.308	28.312	28.315	28.319	28.323	28.327	28.331	28.335	28.339	28.343
720	28.347	28.351	28.355	28.359	28.363	28.367	28.371	28.375	28.378	28.382
721	28.386	28.390	28.394	28.398	28.402	28.406	28.410	28.414	28.418	28.422
722	28.426	28.430	28.434	28.438	28.441	28.445	28.449	28.453	28.457	28.461
723	28.465	28.469	28.473	28.477	28.481	28.485	28.489	28.493	28.497	28.501
724	28.504	28.508	28.512	28.516	28.520	28.524	28.528	28.532	28.536	28.540
725	28.544	28.548	28.552	28.556	28.560	28.564	28.567	28.571	28.575	28.579
726	28.583	28.587	28.591	28.595	28.599	28.603	28.607	28.611	28.615	28.619
727	28.623	28.627	28.630	28.634	28.638	28.642	28.646	28.650	28.654	28.658
728	28.662	28.666	28.670	28.674	28.678	28.682	28.686	28.689	28.693	28.697
729	28.701	28.705	28.709	28.713	28.717	28.721	28.725	28.729	28.733	28.737
730	28.741	28.745	28.749	28.752	28.756	28.760	28.764	28.768	28.772	28.776
731	28.780	28.784	28.788	28.792	28.796	28.800	28.804	28.808	28.812	28.815
732	28.819	28.823	28.827	28.831	28.835	28.839	28.843	28.847	28.851	28.855
733	28.859	28.863	28.867	28.871	28.875	28.878	28.882	28.886	28.890	28.894
734	28.898	28.902	28.906	28.910	28.914	28.918	28.922	28.926	28.930	28.934
735	28.938	28.941	28.945	28.949	28.953	28.957	28.961	28.965	28.969	28.973
736	28.977	28.981	28.985	28.989	28.993	28.997	29.001	29.004	29.008	29.012
737	29.016	29.020	29.024	29.028	29.032	29.036	29.040	29.044	29.048	29.052
738	29.056	29.060	29.064	29.067	29.071	29.075	29.079	29.083	29.087	29.091
739	29.095	29.099	29.103	29.107	29.111	29.115	29.119	29.123	29.127	29.130
740	29.134	29.138	29.142	29.146	29.150	29.154	29.158	29.162	29.166	29.170
741	29.174	29.178	29.182	29.186	29.190	29.193	29.197	29.201	29.205	29.209
742	29.213	29.217	29.221	29.225	29.229	29.233	29.237	29.241	29.245	29.249
743	29.252	29.256	29.260	29.264	29.268	29.272	29.276	29.280	29.284	29.288
744	29.292	29.296	29.300	29.304	29.308	29.312	29.315	29.319	29.323	29.327
745	29.331	29.335	29.339	29.343	29.347	29.351	29.355	29.359	29.363	29.367
746	29.371	29.375	29.378	29.382	29.386	29.390	29.394	29.398	29.402	29.406
747	29.410	29.413	29.418	29.422	29.426	29.430	29.434	29.438	29.441	29.445
748	29.449	29.453	29.457	29.461	29.465	29.469	29.473	29.477	29.481	29.485
749	29.489	29.493	29.497	29.501	29.504	29.508	29.512	29.516	29.520	29.524

# BAROMETER TABLES—II.

Millimetres into Inches.

1 mm. = 0.03937079 inches.

Millimetres.	·0	·1	·2	·3	·4	·5	·6	·7	·8	·9
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
750	29.528	29.532	29.536	29.540	29.544	29.548	29.552	29.556	29.560	29.564
751	29.567	29.571	29.575	29.579	29.583	29.587	29.591	29.595	29.599	29.603
752	29.607	29.611	29.615	29.619	29.623	29.627	29.630	29.634	29.638	29.642
753	29.646	29.650	29.654	29.658	29.662	29.666	29.670	29.674	29.678	29.682
754	29.686	29.690	29.693	29.697	29.701	29.705	29.709	29.713	29.717	29.721
755	29.725	29.729	29.733	29.737	29.741	29.745	29.749	29.753	29.756	29.760
756	29.764	29.768	29.772	29.776	29.780	29.784	29.788	29.792	29.796	29.800
757	29.804	29.808	29.812	29.815	29.819	29.823	29.827	29.831	29.835	29.839
758	29.843	29.847	29.851	29.855	29.859	29.863	29.867	29.871	29.875	29.878
759	29.882	29.886	29.890	29.894	29.898	29.902	29.906	29.910	29.914	29.918
760	29.922	29.926	29.930	29.934	29.938	29.941	29.945	29.949	29.953	29.957
761	29.961	29.965	29.969	29.973	29.977	29.981	29.985	29.989	29.993	29.997
762	30.001	30.005	30.008	30.012	30.016	30.020	30.024	30.028	30.032	30.036
763	30.040	30.044	30.048	30.052	30.056	30.060	30.064	30.067	30.071	30.075
764	30.079	30.083	30.087	30.091	30.095	30.099	30.103	30.107	30.111	30.115
765	30.119	30.123	30.127	30.130	30.134	30.138	30.142	30.146	30.150	30.154
766	30.158	30.162	30.166	30.170	30.174	30.178	30.182	30.186	30.190	30.193
767	30.197	30.201	30.205	30.209	30.213	30.217	30.221	30.225	30.229	30.233
768	30.237	30.241	30.245	30.249	30.253	30.256	30.260	30.264	30.268	30.272
769	30.276	30.280	30.284	30.288	30.292	30.296	30.300	30.304	30.308	30.312
770	30.316	30.319	30.323	30.327	30.331	30.335	30.339	30.343	30.347	30.351
771	30.355	30.359	30.363	30.367	30.371	30.375	30.379	30.382	30.386	30.390
772	30.394	30.398	30.402	30.406	30.410	30.414	30.418	30.422	30.426	30.430
773	30.434	30.438	30.441	30.445	30.449	30.453	30.457	30.461	30.465	30.469
774	30.473	30.477	30.481	30.485	30.489	30.493	30.497	30.501	30.504	30.508
775	30.512	30.516	30.520	30.524	30.528	30.532	30.536	30.540	30.544	30.548
776	30.552	30.556	30.560	30.564	30.567	30.571	30.575	30.579	30.583	30.587
777	30.591	30.595	30.599	30.603	30.607	30.611	30.615	30.619	30.623	30.627
778	30.630	30.634	30.638	30.642	30.646	30.650	30.654	30.658	30.662	30.666
779	30.670	30.674	30.678	30.682	30.686	30.690	30.693	30.697	30.701	30.705
780	30.709	30.713	30.717	30.721	30.725	30.729	30.733	30.737	30.741	30.745
781	30.749	30.753	30.756	30.760	30.764	30.768	30.772	30.776	30.780	30.784
782	30.788	30.792	30.796	30.800	30.804	30.808	30.812	30.816	30.819	30.823
783	30.827	30.831	30.835	30.839	30.843	30.847	30.851	30.855	30.859	30.863
784	30.867	30.871	30.875	30.879	30.882	30.886	30.890	30.894	30.898	30.902
785	30.906	30.910	30.914	30.918	30.922	30.926	30.930	30.934	30.938	30.942
786	30.945	30.949	30.953	30.957	30.961	30.965	30.969	30.973	30.977	30.981
787	30.985	30.989	30.993	30.997	31.001	31.004	31.008	31.012	31.016	31.020
788	31.024	31.028	31.032	31.036	31.040	31.044	31.048	31.052	31.056	31.060
789	31.064	31.067	31.071	31.075	31.079	31.083	31.087	31.091	31.095	31.099
790	31.102									

t. = -10° to 29°.

B. = 17" 0 to 24" 0.

# BAROMETER TABLES—III.

Reduction of the Barometer to 32° Fahrenheit.

*This Table is applicable only to Barometers with Brass Scales.*

Temperature, Fahren- heit.	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.															Temperature, Fahren- heit.
	17'0	17'5	18'0	18'5	19'0	19'5	20'0	20'5	21'0	21'5	22'0	22'5	23'0	23'5	24'0	
-10	+060	+062	+063	+065	+067	+068	+070	+072	+074	+076	+077	+079	+081	+083	+085	-10
9	058	060	062	063	065	067	069	070	072	074	075	077	079	080	082	9
8	057	059	060	062	063	065	067	068	070	072	073	075	077	078	080	8
7	055	057	058	060	062	063	065	067	068	070	071	073	075	076	078	7
6	054	055	057	058	060	061	063	065	066	068	069	071	073	074	076	6
5	052	054	055	057	058	059	061	063	064	066	067	069	070	072	074	5
4	051	052	054	055	056	058	059	061	062	064	065	067	068	070	071	4
3	049	051	052	053	055	056	058	059	061	062	063	065	066	068	069	3
2	047	049	050	052	053	054	056	057	059	060	061	063	064	066	067	2
-1	046	047	049	050	051	052	054	055	057	058	059	061	062	063	065	-1
0	+044	+046	+047	+048	+050	+051	+052	+054	+055	+056	+057	+059	+060	+061	+063	0
+1	043	044	045	047	048	049	050	052	053	054	055	057	058	059	060	+1
2	041	042	044	045	046	047	049	050	051	052	053	055	056	057	058	2
3	040	041	042	043	044	046	047	048	049	050	051	053	054	055	056	3
4	038	039	040	042	043	044	045	046	047	048	049	051	052	053	054	4
5	037	038	039	040	041	042	043	044	045	046	047	049	049	051	052	5
6	035	036	037	038	039	040	041	042	043	044	045	046	047	048	049	6
7	033	034	035	036	037	039	039	040	041	042	043	044	045	046	047	7
8	032	033	034	035	036	037	038	038	039	040	041	042	043	044	045	8
9	030	031	032	033	034	035	036	037	038	038	039	040	041	042	043	9
10	+029	+030	+031	+031	+032	+033	+034	+035	+036	+036	+037	+038	+039	+040	+041	10
11	027	028	029	030	030	031	032	033	034	034	035	036	037	038	039	11
12	026	026	027	028	029	029	030	031	032	032	033	034	035	035	036	12
13	024	025	026	026	027	028	028	029	030	030	031	032	033	033	034	13
14	023	023	024	024	025	026	027	027	028	028	029	030	031	031	032	14
15	021	022	022	023	024	024	025	025	026	027	027	028	029	029	030	15
16	020	020	021	021	022	022	023	023	024	025	025	026	026	027	028	16
17	018	019	019	020	020	021	021	022	022	023	023	024	024	025	025	17
18	016	017	017	018	018	019	019	020	020	021	021	022	022	023	023	18
19	015	015	016	016	017	017	018	018	018	019	019	020	020	020	021	19
20	+013	+014	+014	+015	+015	+015	+016	+016	+016	+017	+017	+018	+018	+018	+019	20
21	012	012	012	013	013	013	014	014	015	015	015	016	016	016	017	21
22	010	010	011	011	011	012	012	012	013	013	013	014	014	014	014	22
23	009	009	009	009	010	010	010	010	011	011	011	012	012	012	012	23
24	007	007	008	008	008	008	008	009	009	009	009	010	010	010	010	24
25	006	006	006	006	006	006	007	007	007	007	007	007	008	008	008	25
26	004	004	004	004	005	005	005	005	005	005	005	005	005	006	006	26
27	003	003	003	003	003	003	003	003	003	003	003	003	003	003	004	27
28	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	28
29	-001	-001	-001	-001	-001	-001	-001	-001	-001	-001	-001	-001	-001	-001	-001	29



# BAROMETER TABLES—III.

t. = —10° to 29°.  
B. = 24"·5 to 31"·0.

Reduction of the Barometer to 32° Fahrenheit.

Temperature, Fahrenheit.	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.														Temperature, Fahrenheit.
	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5	30·0	30·5	31·0	
•															•
—10	+·087	+·088	+·090	+·092	+·094	+·095	+·097	+·099	+·101	+·102	+·104	+·106	+·108	+·109	—10
9	·084	·086	·088	·089	·091	·093	·095	·096	·098	·099	·101	·103	·105	·106	9
8	·082	·083	·085	·087	·089	·090	·092	·094	·095	·097	·098	·100	·102	·104	8
7	·079	·081	·083	·084	·086	·088	·090	·091	·092	·094	·095	·097	·099	·101	7
6	·077	·079	·081	·082	·083	·085	·087	·088	·090	·092	·093	·095	·097	·098	6
5	·075	·077	·078	·080	·081	·083	·084	·086	·087	·089	·090	·092	·094	·095	5
4	·073	·074	·076	·077	·079	·080	·081	·083	·084	·086	·087	·089	·091	·092	4
3	·070	·072	·073	·075	·076	·078	·079	·081	·082	·084	·085	·086	·088	·089	3
2	·068	·070	·071	·073	·074	·075	·077	·078	·079	·081	·082	·084	·085	·087	2
—1	·066	·067	·069	·070	·071	·073	·074	·076	·077	·078	·079	·081	·082	·084	1
0	+·064	+·065	+·066	+·068	+·069	+·070	+·072	+·073	+·074	+·076	+·077	+·078	+·080	+·081	0
+1	·062	·063	·064	·065	·066	·068	·069	·070	·072	·073	·074	·076	·077	·078	+1
2	·059	·061	·062	·063	·064	·065	·067	·068	·069	·070	·071	·073	·074	·075	2
3	·057	·058	·060	·061	·062	·063	·064	·065	·066	·068	·069	·070	·071	·072	3
4	·055	·056	·057	·058	·059	·061	·062	·063	·064	·065	·066	·067	·068	·070	4
5	·053	·054	·055	·056	·057	·058	·059	·060	·061	·062	·063	·065	·066	·067	5
6	·051	·052	·053	·054	·055	·056	·057	·058	·059	·060	·061	·062	·063	·064	6
7	·048	·049	·050	·051	·052	·053	·054	·055	·056	·057	·058	·059	·060	·061	7
8	·046	·047	·048	·049	·050	·051	·052	·053	·054	·054	·055	·056	·057	·058	8
9	·044	·045	·046	·046	·047	·048	·049	·050	·051	·052	·053	·054	·055	·055	9
10	+·042	+·042	+·043	+·044	+·045	+·046	+·047	+·047	+·048	+·049	+·050	+·051	+·052	+·053	10
11	·039	·040	·041	·042	·042	·043	·044	·045	·046	·047	·047	·048	·049	·050	11
12	·037	·038	·039	·039	·040	·041	·041	·042	·043	·044	·045	·045	·046	·047	12
13	·035	·036	·036	·037	·038	·038	·039	·040	·040	·041	·042	·043	·043	·044	13
14	·032	·033	·034	·035	·035	·036	·036	·037	·038	·039	·039	·040	·040	·041	14
15	·030	·031	·032	·032	·033	·033	·034	·035	·035	·036	·036	·037	·038	·038	15
16	·028	·029	·029	·030	·030	·031	·031	·032	·033	·033	·034	·034	·035	·036	16
17	·026	·026	·027	·027	·028	·029	·029	·030	·030	·031	·031	·032	·032	·033	17
18	·024	·024	·025	·025	·026	·026	·026	·027	·027	·028	·029	·029	·029	·030	18
19	·021	·022	·022	·023	·023	·024	·024	·025	·025	·025	·026	·026	·027	·027	19
20	+·019	+·019	+·020	+·020	+·021	+·021	+·021	+·022	+·022	+·023	+·023	+·024	+·024	+·024	20
21	·017	·017	·018	·018	·018	·019	·019	·019	·020	·020	·021	·021	·021	·022	21
22	·015	·015	·015	·016	·016	·016	·017	·017	·017	·017	·018	·018	·018	·019	22
23	·012	·013	·013	·013	·014	·014	·014	·014	·015	·015	·015	·015	·016	·016	23
24	·010	·011	·011	·011	·011	·011	·012	·012	·012	·012	·012	·013	·013	·013	24
25	·008	·008	·008	·009	·009	·009	·009	·009	·009	·010	·010	·010	·010	·010	25
26	·006	·006	·006	·006	·006	·006	·007	·007	·007	·007	·007	·007	·007	·007	26
27	·004	·004	·004	·004	·004	·004	·004	·004	·004	·004	·004	·004	·005	·005	27
28	+·001	+·001	+·001	+·001	+·002	+·002	+·002	+·002	+·002	+·002	+·002	+·002	+·002	+·002	28
29	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	—·001	29

t. = 30° to 69°.  
B. = 17" 0 to 24" 0.

# BAROMETER TABLES—III.

Reduction of the Barometer to 32° Fahrenheit.

Tempera- ture, Fahren- heit.	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.															Tempera- ture, Fahren- heit.
	17'0	17'5	18'0	18'5	19'0	19'5	20'0	20'5	21'0	21'5	22'0	22'5	23'0	23'5	24'0	
30	—002	—002	—002	—002	—002	—002	—002	—003	—003	—003	—003	—003	—003	—003	—003	30
31	—004	—004	—004	—004	—004	—004	—004	—004	—005	—005	—005	—005	—005	—005	—005	31
32	—005	—005	—006	—006	—006	—006	—006	—006	—006	—007	—007	—007	—007	—007	—007	32
33	—007	—007	—007	—007	—008	—008	—008	—008	—008	—009	—009	—009	—009	—010	—010	33
34	—008	—009	—009	—009	—009	—010	—010	—010	—010	—011	—011	—011	—011	—012	—012	34
35	—010	—010	—010	—011	—011	—011	—012	—012	—012	—012	—013	—013	—013	—014	—014	35
36	—011	—012	—012	—012	—013	—013	—013	—014	—014	—014	—015	—015	—015	—016	—016	36
37	—013	—013	—014	—014	—014	—015	—015	—016	—016	—016	—017	—017	—017	—018	—018	37
38	—014	—015	—015	—016	—016	—017	—017	—017	—018	—018	—019	—019	—020	—020	—020	38
39	—016	—016	—017	—017	—018	—018	—019	—019	—020	—020	—021	—021	—022	—022	—023	39
40	—018	—018	—019	—019	—020	—020	—021	—021	—022	—022	—023	—023	—024	—024	—025	40
41	—019	—020	—020	—021	—021	—022	—022	—023	—024	—024	—025	—025	—026	—026	—027	41
42	—021	—021	—022	—022	—023	—024	—024	—025	—025	—026	—027	—027	—028	—028	—029	42
43	—022	—023	—023	—024	—025	—025	—026	—027	—027	—028	—029	—029	—030	—031	—031	43
44	—024	—024	—025	—026	—026	—027	—028	—029	—029	—030	—031	—031	—032	—033	—033	44
45	—025	—026	—027	—027	—028	—029	—030	—030	—031	—032	—033	—033	—034	—035	—036	45
46	—027	—027	—028	—029	—030	—031	—031	—032	—033	—034	—035	—035	—036	—037	—038	46
47	—028	—029	—030	—031	—032	—032	—033	—034	—035	—036	—037	—038	—038	—039	—040	47
48	—030	—031	—032	—032	—033	—034	—035	—036	—037	—038	—039	—040	—040	—041	—042	48
49	—031	—032	—033	—034	—035	—036	—037	—038	—039	—040	—041	—042	—042	—043	—044	49
50	—033	—034	—035	—036	—037	—038	—039	—040	—041	—042	—043	—044	—045	—045	—046	50
51	—034	—035	—036	—037	—039	—039	—041	—042	—043	—044	—045	—046	—047	—047	—049	51
52	—036	—037	—038	—039	—040	—041	—042	—043	—044	—046	—047	—048	—049	—049	—051	52
53	—038	—039	—040	—041	—042	—043	—044	—045	—046	—048	—049	—050	—051	—052	—053	53
54	—039	—040	—041	—042	—044	—045	—046	—047	—048	—050	—051	—052	—053	—054	—055	54
55	—041	—042	—043	—044	—045	—046	—048	—049	—050	—052	—053	—054	—055	—056	—057	55
56	—042	—043	—045	—046	—047	—048	—050	—051	—052	—054	—055	—056	—057	—058	—060	56
57	—044	—045	—046	—047	—049	—050	—051	—052	—054	—056	—057	—058	—059	—060	—062	57
58	—045	—046	—048	—049	—051	—052	—053	—054	—056	—057	—059	—060	—061	—062	—064	58
59	—047	—048	—050	—051	—052	—053	—055	—056	—058	—059	—061	—062	—063	—064	—066	59
60	—048	—049	—051	—052	—054	—055	—057	—058	—060	—061	—062	—064	—065	—066	—068	60
61	—050	—051	—053	—054	—056	—057	—059	—060	—062	—063	—064	—066	—067	—069	—070	61
62	—051	—053	—054	—056	—057	—059	—060	—062	—063	—065	—066	—068	—069	—071	—073	62
63	—053	—055	—056	—058	—059	—060	—062	—063	—065	—067	—068	—070	—072	—073	—075	63
64	—054	—056	—058	—059	—061	—062	—064	—065	—067	—069	—070	—072	—074	—076	—077	64
65	—056	—057	—059	—061	—063	—064	—066	—067	—069	—071	—072	—074	—076	—078	—079	65
66	—057	—059	—061	—063	—064	—066	—068	—069	—071	—073	—074	—076	—078	—080	—081	66
67	—059	—061	—062	—065	—066	—068	—069	—071	—073	—075	—076	—078	—080	—082	—083	67
68	—061	—062	—064	—066	—068	—070	—071	—073	—075	—077	—078	—080	—082	—084	—085	68
69	—062	—064	—066	—067	—069	—072	—073	—075	—077	—079	—080	—082	—084	—086	—088	69

# BAROMETER TABLES—III.

t. = 30° to 69°.  
B. = 24"·5 to 31" 0.

Reduction of the Barometer to 32° Fahrenheit.

Temperature, Fahrenheit.	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.														Temperature, Fahrenheit.
	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5	30·0	30·5	31·0	
30	—·003	—·003	—·003	—·003	—·003	—·003	—·003	—·003	—·004	—·004	—·004	—·004	—·004	—·004	30
31	·005	·005	·006	·006	·006	·006	·006	·006	·006	·006	·006	·006	·007	·007	31
32	·008	·008	·008	·008	·008	·008	·008	·009	·009	·009	·009	·009	·009	·009	32
33	·010	·010	·010	·010	·011	·011	·011	·011	·011	·012	·012	·012	·012	·012	33
34	·012	·012	·012	·013	·013	·013	·013	·014	·014	·014	·014	·015	·015	·015	34
35	·014	·014	·015	·015	·015	·016	·016	·016	·017	·017	·017	·017	·018	·018	35
36	·017	·017	·017	·017	·018	·018	·018	·019	·019	·019	·020	·020	·020	·021	36
37	·019	·019	·019	·020	·020	·021	·021	·021	·022	·022	·022	·023	·023	·024	37
38	·021	·021	·022	·022	·023	·023	·023	·024	·024	·025	·025	·026	·026	·026	38
39	·023	·024	·024	·024	·025	·025	·026	·026	·027	·027	·028	·028	·029	·029	39
40	—·025	—·026	—·026	—·027	—·027	—·028	—·028	—·029	—·029	—·030	—·030	—·031	—·031	—·032	40
41	·027	·028	·029	·029	·030	·030	·031	·031	·032	·033	·033	·034	·034	·035	41
42	·030	·030	·031	·032	·032	·033	·033	·034	·034	·035	·036	·036	·037	·038	42
43	·032	·033	·033	·034	·034	·035	·036	·036	·037	·038	·038	·039	·040	·040	43
44	·034	·035	·035	·036	·037	·038	·038	·039	·040	·040	·041	·042	·042	·043	44
45	·036	·037	·038	·039	·039	·040	·041	·041	·042	·043	·044	·044	·045	·046	45
46	·038	·039	·040	·041	·042	·043	·043	·044	·045	·046	·046	·047	·048	·049	46
47	·041	·042	·042	·043	·044	·045	·046	·047	·047	·048	·049	·050	·051	·052	47
48	·043	·044	·045	·046	·046	·047	·048	·049	·050	·051	·052	·053	·053	·054	48
49	·045	·046	·047	·048	·049	·050	·051	·052	·053	·054	·054	·055	·056	·057	49
50	—·047	—·048	—·049	—·050	—·051	—·052	—·053	—·054	—·055	—·056	—·057	—·058	—·059	—·060	50
51	·049	·051	·051	·053	·054	·055	·056	·057	·058	·059	·060	·061	·062	·063	51
52	·052	·053	·054	·055	·056	·057	·058	·059	·060	·061	·062	·064	·064	·066	52
53	·054	·055	·056	·057	·058	·060	·061	·062	·063	·064	·065	·066	·067	·068	53
54	·056	·057	·058	·060	·061	·062	·063	·064	·065	·067	·068	·069	·070	·071	54
55	·058	·060	·061	·062	·063	·064	·065	·067	·068	·069	·070	·072	·073	·074	55
56	·061	·062	·063	·064	·065	·067	·068	·069	·070	·072	·073	·074	·075	·077	56
57	·063	·064	·065	·067	·068	·069	·070	·072	·073	·075	·076	·077	·078	·080	57
58	·065	·066	·068	·069	·071	·072	·073	·074	·076	·077	·078	·080	·081	·082	58
59	·067	·069	·070	·072	·073	·074	·075	·077	·078	·080	·081	·083	·084	·085	59
60	—·069	—·071	—·072	—·074	—·075	—·077	—·078	—·080	—·081	—·082	—·084	—·085	—·086	—·086	60
61	·072	·073	·074	·076	·077	·079	·080	·082	·084	·085	·087	·088	·090	·091	61
62	·074	·076	·077	·079	·080	·082	·083	·085	·086	·088	·089	·091	·092	·094	62
63	·077	·078	·080	·081	·082	·084	·086	·087	·089	·090	·092	·093	·095	·096	63
64	·079	·080	·082	·083	·085	·086	·088	·090	·092	·093	·095	·096	·098	·099	64
65	·081	·082	·084	·086	·087	·089	·091	·092	·094	·095	·097	·099	·100	·102	65
66	·083	·085	·086	·088	·090	·091	·093	·095	·097	·098	·100	·101	·103	·105	66
67	·085	·087	·089	·090	·092	·094	·096	·097	·099	·101	·103	·104	·106	·108	67
68	·087	·089	·091	·093	·095	·096	·098	·100	·102	·103	·105	·107	·109	·110	68
69	·090	·091	·093	·095	·097	·099	·101	·102	·104	·106	·108	·110	·111	·113	69

t. = 70° to 110°.  
B = 17" 0 to 24" 0.

# BAROMETER TABLES—III.

Reduction of the Barometer to 32° Fahrenheit.

Temperature, Fahren- heit.	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.																Tempera- ture, Fahren- heit.
	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0		
70	-.064	-.066	-.067	-.069	-.071	-.073	-.075	-.077	-.079	-.081	-.082	-.084	-.086	-.088	-.090	70	
71	-.065	-.067	-.069	-.071	-.073	-.075	-.077	-.078	-.080	-.082	-.084	-.086	-.088	-.090	-.092	71	
72	-.067	-.069	-.071	-.073	-.075	-.077	-.078	-.080	-.082	-.084	-.086	-.088	-.090	-.092	-.094	72	
73	-.068	-.070	-.072	-.074	-.076	-.078	-.080	-.082	-.084	-.086	-.088	-.090	-.092	-.094	-.096	73	
74	-.070	-.072	-.074	-.076	-.078	-.080	-.082	-.084	-.086	-.088	-.090	-.092	-.094	-.096	-.098	74	
75	-.071	-.073	-.075	-.077	-.080	-.082	-.084	-.086	-.088	-.090	-.092	-.094	-.096	-.099	-.101	75	
76	-.073	-.075	-.077	-.079	-.081	-.084	-.086	-.088	-.090	-.092	-.094	-.096	-.098	-.101	-.103	76	
77	-.074	-.076	-.079	-.081	-.083	-.085	-.087	-.090	-.092	-.094	-.096	-.098	-.101	-.103	-.105	77	
78	-.076	-.078	-.080	-.082	-.085	-.087	-.089	-.092	-.094	-.096	-.098	-.100	-.103	-.105	-.107	78	
79	-.077	-.079	-.082	-.084	-.086	-.089	-.091	-.093	-.096	-.098	-.100	-.102	-.105	-.107	-.109	79	
80	-.079	-.081	-.084	-.086	-.088	-.091	-.093	-.095	-.097	-.100	-.102	-.104	-.107	-.109	-.111	80	
81	-.080	-.082	-.085	-.087	-.090	-.092	-.095	-.097	-.099	-.102	-.104	-.106	-.109	-.111	-.114	81	
82	-.082	-.084	-.087	-.089	-.092	-.094	-.096	-.099	-.101	-.104	-.106	-.108	-.111	-.113	-.116	82	
83	-.083	-.085	-.088	-.090	-.093	-.096	-.098	-.101	-.103	-.105	-.108	-.110	-.113	-.115	-.118	83	
84	-.085	-.087	-.090	-.092	-.095	-.098	-.100	-.102	-.105	-.107	-.110	-.112	-.115	-.117	-.120	84	
85	-.087	-.089	-.092	-.094	-.097	-.099	-.102	-.104	-.107	-.109	-.112	-.114	-.117	-.119	-.122	85	
86	-.088	-.090	-.093	-.096	-.098	-.101	-.104	-.106	-.109	-.111	-.114	-.116	-.119	-.122	-.124	86	
87	-.090	-.092	-.095	-.098	-.100	-.103	-.105	-.108	-.111	-.113	-.116	-.118	-.121	-.124	-.126	87	
88	-.091	-.093	-.096	-.100	-.102	-.104	-.107	-.110	-.113	-.116	-.118	-.120	-.123	-.126	-.129	88	
89	-.093	-.095	-.098	-.101	-.104	-.106	-.109	-.112	-.114	-.118	-.120	-.122	-.125	-.128	-.131	89	
90	-.094	-.097	-.100	-.102	-.105	-.108	-.111	-.114	-.116	-.120	-.122	-.124	-.127	-.130	-.133	90	
91	-.096	-.098	-.101	-.104	-.107	-.110	-.113	-.116	-.118	-.121	-.124	-.126	-.129	-.132	-.135	91	
92	-.097	-.100	-.103	-.106	-.109	-.111	-.114	-.117	-.120	-.123	-.126	-.128	-.132	-.134	-.137	92	
93	-.099	-.102	-.105	-.107	-.110	-.113	-.116	-.119	-.122	-.125	-.128	-.130	-.134	-.136	-.139	93	
94	-.100	-.103	-.106	-.109	-.112	-.115	-.118	-.121	-.124	-.127	-.130	-.132	-.136	-.138	-.142	94	
95	-.102	-.105	-.108	-.111	-.114	-.117	-.120	-.123	-.126	-.129	-.132	-.135	-.138	-.140	-.144	95	
96	-.103	-.106	-.109	-.112	-.115	-.118	-.122	-.125	-.128	-.131	-.134	-.137	-.140	-.142	-.146	96	
97	-.105	-.103	-.111	-.114	-.117	-.120	-.123	-.127	-.130	-.133	-.136	-.139	-.142	-.145	-.148	97	
98	-.106	-.109	-.113	-.116	-.119	-.122	-.125	-.129	-.131	-.135	-.138	-.141	-.144	-.147	-.150	98	
99	-.108	-.111	-.114	-.117	-.120	-.123	-.127	-.131	-.133	-.137	-.140	-.143	-.146	-.149	-.152	99	
100	-.109	-.112	-.116	-.119	-.122	-.125	-.129	-.133	-.135	-.139	-.142	-.145	-.148	-.151	-.154	100	
101	-.111	-.114	-.117	-.120	-.124	-.127	-.130	-.134	-.137	-.141	-.144	-.147	-.150	-.153	-.157	101	
102	-.112	-.116	-.119	-.122	-.126	-.129	-.132	-.136	-.139	-.143	-.146	-.149	-.152	-.155	-.159	102	
103	-.114	-.117	-.120	-.124	-.127	-.130	-.134	-.138	-.141	-.144	-.148	-.151	-.154	-.157	-.161	103	
104	-.116	-.119	-.122	-.125	-.129	-.132	-.136	-.140	-.143	-.146	-.149	-.153	-.156	-.159	-.163	104	
105	-.117	-.120	-.124	-.127	-.131	-.134	-.138	-.141	-.145	-.148	-.151	-.155	-.158	-.162	-.165	105	
106	-.119	-.122	-.126	-.129	-.132	-.136	-.139	-.143	-.146	-.150	-.153	-.157	-.160	-.164	-.167	106	
107	-.120	-.122	-.127	-.130	-.134	-.137	-.141	-.145	-.148	-.152	-.155	-.159	-.162	-.166	-.170	107	
108	-.122	-.125	-.129	-.132	-.136	-.139	-.143	-.147	-.150	-.154	-.157	-.161	-.164	-.168	-.172	108	
109	-.123	-.126	-.130	-.134	-.138	-.141	-.145	-.149	-.152	-.156	-.159	-.163	-.167	-.170	-.174	109	
110	-.125	-.128	-.132	-.135	-.139	-.143	-.147	-.151	-.154	-.158	-.161	-.165	-.169	-.173	-.176	110	

# BAROMETER TABLES—III.

t. = 70° to 110°.  
B. = 24"·5 to 31"·0.

Reduction of the Barometer to 32° Fahrenheit.

Temperature, Fahrenheit.	HEIGHT OF THE BAROMETER IN INCHES, AND CORRECTION IN DECIMALS OF AN INCH.														Temperature, Fahrenheit.
	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5	30·0	30·5	31·0	
70	·092	·094	·096	·097	·099	·101	·103	·105	·107	·109	·110	·112	·114	·116	70
71	·094	·096	·098	·100	·102	·103	·105	·107	·109	·111	·113	·115	·117	·119	71
72	·096	·098	·100	·102	·104	·106	·108	·110	·112	·114	·116	·118	·120	·122	72
73	·098	·100	·102	·104	·106	·108	·110	·112	·114	·116	·118	·120	·122	·124	73
74	·100	·103	·105	·107	·109	·111	·113	·115	·117	·119	·121	·123	·125	·127	74
75	·103	·105	·107	·109	·111	·113	·115	·117	·119	·122	·124	·126	·128	·130	75
76	·105	·107	·109	·111	·113	·116	·118	·120	·122	·124	·126	·128	·130	·133	76
77	·107	·109	·111	·114	·116	·118	·120	·122	·124	·127	·129	·131	·133	·136	77
78	·109	·112	·114	·116	·118	·120	·123	·125	·127	·129	·132	·134	·136	·138	78
79	·111	·114	·116	·118	·120	·123	·125	·127	·129	·132	·135	·137	·139	·141	79
80	·114	·116	·118	·121	·123	·125	·127	·130	·132	·135	·137	·139	·142	·144	80
81	·116	·118	·120	·123	·125	·128	·130	·132	·135	·137	·139	·142	·144	·147	81
82	·118	·121	·123	·125	·127	·130	·132	·135	·137	·140	·142	·145	·147	·149	82
83	·120	·123	·125	·128	·130	·133	·135	·138	·140	·142	·144	·147	·149	·152	83
84	·122	·125	·127	·130	·132	·135	·137	·140	·142	·145	·147	·150	·152	·155	84
85	·124	·127	·129	·132	·134	·137	·140	·143	·145	·148	·150	·153	·155	·158	85
86	·127	·130	·132	·135	·137	·140	·142	·145	·148	·150	·153	·155	·158	·161	86
87	·129	·132	·134	·137	·139	·142	·145	·148	·151	·153	·156	·158	·161	·163	87
88	·132	·134	·136	·139	·142	·145	·148	·150	·153	·155	·158	·161	·164	·166	88
89	·134	·136	·139	·142	·145	·147	·150	·153	·156	·158	·161	·164	·167	·169	89
90	·135	·138	·141	·144	·147	·150	·153	·155	·158	·161	·164	·166	·169	·172	90
91	·137	·141	·143	·146	·149	·152	·155	·158	·161	·163	·167	·169	·172	·175	91
92	·140	·143	·146	·149	·152	·154	·157	·160	·163	·166	·169	·172	·174	·177	92
93	·142	·145	·149	·151	·154	·157	·160	·163	·166	·168	·172	·174	·177	·180	93
94	·144	·147	·151	·153	·156	·159	·163	·165	·168	·171	·174	·177	·180	·183	94
95	·147	·150	·153	·156	·159	·162	·165	·168	·171	·174	·177	·180	·183	·186	95
96	·149	·152	·155	·158	·161	·164	·167	·170	·173	·176	·180	·182	·186	·188	96
97	·151	·154	·158	·160	·164	·167	·170	·173	·176	·179	·182	·185	·188	·191	97
98	·153	·156	·160	·163	·166	·169	·172	·175	·178	·181	·185	·188	·191	·194	98
99	·155	·159	·162	·165	·168	·171	·175	·178	·181	·184	·187	·190	·194	·197	99
100	·157	·161	·164	·167	·171	·174	·177	·180	·183	·187	·190	·193	·197	·200	100
101	·160	·163	·167	·170	·173	·176	·180	·183	·186	·189	·192	·196	·199	·202	101
102	·162	·165	·169	·172	·175	·179	·182	·185	·188	·192	·195	·198	·202	·205	102
103	·165	·168	·171	·174	·178	·181	·184	·188	·191	·194	·198	·201	·204	·208	103
104	·167	·170	·173	·177	·180	·183	·187	·190	·194	·197	·200	·204	·207	·211	104
105	·169	·172	·176	·179	·182	·186	·190	·193	·196	·200	·203	·207	·210	·213	105
106	·171	·174	·178	·181	·185	·188	·192	·195	·199	·202	·205	·209	·212	·216	106
107	·173	·177	·180	·184	·187	·191	·194	·198	·201	·205	·208	·212	·215	·219	107
108	·175	·179	·182	·186	·189	·193	·197	·200	·204	·207	·211	·215	·218	·222	108
109	·177	·181	·185	·188	·192	·196	·199	·203	·206	·210	·213	·217	·221	·224	109
110	·180	·183	·187	·191	·194	·198	·201	·205	·209	·213	·216	·220	·223	·227	110

# BAROMETER TABLES—IV.

Reduction of Barometer to standard gravity.

Latitude correction.

LATITUDE.		HEIGHT OF THE BAROMETER.															
Correction to be subtracted.	Correction to be added.	17'0	17'5	18'0	18'5	19'0	19'5	20'0	20'5	21'0	21'5	22'0	22'5	23'0	23'5	24'0	
0	50	0.045	0.046	0.047	0.048	0.049	0.051	0.052	0.053	0.054	0.056	0.057	0.058	0.060	0.061	0.062	
1	49	.045	.046	.047	.048	.049	.050	.052	.053	.054	.056	.057	.058	.060	.061	.062	
2	88	.044	.046	.047	.048	.049	.050	.052	.053	.054	.056	.057	.058	.059	.061	.062	
3	87	.044	.045	.046	.048	.049	.050	.052	.053	.054	.055	.057	.058	.059	.061	.062	
4	86	.044	.045	.046	.047	.049	.050	.051	.053	.054	.055	.056	.058	.059	.060	.062	
5	85	.043	.045	.046	.047	.048	.050	.051	.052	.054	.055	.056	.057	.059	.060	.061	
6	84	.043	.044	.046	.047	.048	.049	.051	.052	.053	.054	.056	.057	.058	.060	.061	
7	83	.042	.044	.045	.046	.048	.049	.050	.052	.053	.054	.055	.057	.058	.059	.060	
8	82	.042	.043	.045	.046	.047	.049	.050	.051	.052	.054	.055	.056	.057	.059	.060	
9	81	.042	.043	.044	.046	.047	.048	.049	.050	.052	.053	.054	.055	.057	.058	.059	
10	80	.041	.042	.044	.045	.046	.047	.049	.050	.051	.052	.054	.055	.056	.057	.058	
11	79	.041	.042	.043	.044	.046	.047	.048	.049	.050	.052	.053	.054	.055	.056	.058	
12	78	.040	.041	.043	.044	.045	.046	.047	.049	.050	.051	.052	.053	.054	.056	.057	
13	77	.040	.041	.042	.043	.044	.045	.047	.048	.049	.050	.051	.052	.054	.055	.056	
14	76	.039	.040	.041	.042	.043	.045	.046	.047	.048	.049	.050	.051	.053	.054	.055	
15	75	.038	.039	.040	.041	.043	.044	.045	.046	.047	.048	.049	.050	.052	.053	.054	
16	74	.037	.038	.040	.041	.042	.043	.044	.045	.046	.047	.048	.049	.051	.052	.053	
17	73	.036	.038	.039	.040	.041	.042	.043	.044	.045	.046	.047	.048	.049	.050	.052	
18	72	.036	.037	.038	.039	.040	.041	.042	.043	.044	.045	.046	.047	.048	.049	.050	
19	71	.035	.036	.037	.038	.039	.040	.041	.042	.043	.044	.045	.046	.047	.048	.049	
20	70	.034	.035	.036	.037	.038	.039	.040	.041	.042	.043	.044	.045	.046	.047	.048	
21	69	.033	.034	.035	.036	.037	.038	.038	.039	.040	.041	.042	.043	.044	.045	.046	
22	68	.032	.033	.034	.034	.035	.036	.037	.038	.039	.040	.041	.042	.043	.044	.045	
23	67	.031	.031	.032	.033	.034	.035	.036	.037	.038	.039	.040	.040	.041	.042	.043	
24	66	.029	.030	.031	.032	.033	.034	.035	.036	.036	.037	.038	.039	.040	.041	.042	
25	65	.028	.029	.030	.031	.032	.032	.033	.034	.035	.036	.037	.037	.038	.039	.040	
26	64	.027	.028	.029	.030	.030	.031	.032	.033	.033	.034	.035	.036	.037	.037	.038	
27	63	.026	.027	.027	.028	.029	.030	.030	.031	.032	.033	.033	.034	.035	.036	.037	
28	62	.024	.025	.026	.027	.028	.028	.029	.030	.030	.031	.032	.033	.033	.034	.035	
29	61	.023	.024	.025	.025	.026	.027	.027	.028	.029	.030	.030	.031	.032	.032	.033	
30	60	.022	.023	.023	.024	.025	.025	.026	.027	.027	.028	.028	.029	.030	.030	.031	
31	59	.020	.021	.022	.022	.023	.024	.024	.025	.026	.026	.027	.027	.028	.029	.029	
32	58	.019	.020	.020	.021	.022	.022	.023	.023	.024	.024	.025	.026	.026	.027	.027	
33	57	.018	.018	.019	.019	.020	.021	.021	.022	.022	.023	.023	.024	.024	.025	.025	
34	56	.016	.017	.017	.018	.018	.019	.019	.020	.020	.021	.021	.022	.022	.023	.023	
35	55	.015	.015	.016	.016	.017	.017	.018	.018	.019	.019	.019	.020	.020	.021	.021	
36	54	.014	.014	.014	.015	.015	.016	.016	.016	.017	.017	.018	.018	.018	.019	.019	
37	53	.012	.013	.013	.013	.014	.014	.014	.015	.015	.015	.016	.016	.016	.017	.017	
38	52	.011	.011	.011	.012	.012	.012	.013	.013	.013	.013	.014	.014	.014	.015	.015	
39	51	.009	.010	.010	.010	.010	.011	.011	.011	.011	.012	.012	.012	.012	.013	.013	
40	50	.008	.008	.008	.008	.009	.009	.009	.009	.009	.010	.010	.010	.010	.011	.011	
41	49	.006	.006	.006	.007	.007	.007	.007	.007	.008	.008	.008	.008	.008	.008	.009	
42	48	.005	.005	.005	.005	.005	.005	.005	.006	.006	.006	.006	.006	.006	.006	.006	
43	47	.003	.003	.003	.003	.003	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004	
44	46	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	
45	45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

# BAROMETER TABLES—IV.

Reduction of Barometer to standard gravity.  
Latitude correction.

LATITUDE.		HEIGHT OF THE BAROMETER.														
Correction to be subtracted.	Correction to be added.	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5
0	90	0.063	0.065	0.066	0.067	0.069	0.070	0.071	0.073	0.074	0.075	0.076	0.078	0.079	0.080	0.082
1	89	.063	.065	.066	.067	.069	.070	.071	.072	.074	.075	.076	.078	.079	.080	.082
2	88	.063	.065	.066	.067	.068	.070	.071	.072	.074	.075	.076	.078	.079	.080	.081
3	87	.063	.064	.066	.067	.068	.070	.071	.072	.073	.075	.076	.077	.079	.080	.081
4	86	.063	.064	.065	.067	.068	.069	.071	.072	.073	.074	.076	.077	.078	.080	.081
5	85	.062	.064	.065	.066	.068	.069	.070	.071	.073	.074	.075	.077	.078	.079	.080
6	84	.062	.063	.065	.066	.067	.068	.070	.071	.072	.073	.075	.076	.077	.079	.080
7	83	.062	.063	.064	.065	.067	.068	.069	.070	.072	.073	.074	.075	.077	.078	.079
8	82	.061	.062	.063	.065	.066	.067	.068	.070	.071	.072	.073	.075	.076	.077	.078
9	81	.060	.062	.063	.064	.065	.067	.068	.069	.070	.071	.073	.074	.075	.076	.078
10	80	.060	.061	.062	.063	.064	.066	.067	.068	.069	.071	.072	.073	.074	.075	.077
11	79	.059	.060	.061	.062	.064	.065	.066	.067	.068	.070	.071	.072	.073	.074	.076
12	78	.058	.059	.060	.062	.063	.064	.065	.066	.067	.069	.070	.071	.072	.073	.075
13	77	.057	.058	.059	.061	.062	.063	.064	.065	.066	.068	.069	.070	.071	.072	.073
14	76	.056	.057	.058	.059	.061	.062	.063	.064	.065	.066	.067	.069	.070	.071	.072
15	75	.055	.056	.057	.058	.059	.061	.062	.063	.064	.065	.066	.067	.068	.070	.071
16	74	.054	.055	.056	.057	.058	.059	.060	.061	.063	.064	.065	.066	.067	.068	.069
17	73	.053	.054	.055	.056	.057	.058	.059	.060	.061	.062	.063	.064	.065	.067	.068
18	72	.051	.052	.053	.054	.056	.057	.058	.059	.060	.061	.062	.063	.064	.065	.066
19	71	.050	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060	.061	.062	.063	.064
20	70	.049	.050	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060	.061	.062	.062
21	69	.047	.048	.049	.050	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060	.061
22	68	.046	.047	.048	.048	.049	.050	.051	.052	.053	.054	.055	.056	.057	.058	.059
23	67	.044	.045	.046	.047	.048	.049	.049	.050	.051	.052	.053	.054	.055	.056	.057
24	66	.042	.043	.044	.045	.046	.047	.048	.049	.049	.050	.051	.052	.053	.054	.055
25	65	.041	.042	.042	.043	.044	.045	.046	.047	.047	.048	.049	.050	.051	.052	.052
26	64	.039	.040	.041	.041	.042	.043	.044	.045	.045	.046	.047	.048	.049	.049	.050
27	63	.037	.038	.039	.040	.040	.041	.042	.043	.043	.044	.045	.046	.046	.047	.048
28	62	.035	.036	.037	.038	.038	.039	.040	.041	.041	.042	.043	.043	.044	.045	.046
29	61	.034	.034	.035	.036	.036	.037	.038	.038	.039	.040	.040	.041	.042	.043	.043
30	60	.032	.032	.033	.034	.034	.035	.036	.036	.037	.038	.038	.039	.039	.040	.041
31	59	.030	.030	.031	.032	.032	.033	.033	.034	.035	.035	.036	.036	.037	.038	.038
32	58	.028	.028	.029	.030	.030	.031	.031	.032	.032	.033	.033	.034	.035	.035	.036
33	57	.026	.026	.027	.027	.028	.028	.029	.029	.030	.031	.031	.032	.032	.033	.033
34	56	.024	.024	.025	.025	.026	.026	.027	.027	.028	.028	.029	.029	.030	.030	.031
35	55	.022	.022	.023	.023	.023	.024	.024	.025	.025	.026	.026	.027	.027	.027	.028
36	54	.020	.020	.020	.021	.021	.022	.022	.022	.023	.023	.024	.024	.024	.025	.025
37	53	.017	.018	.018	.019	.019	.019	.020	.020	.020	.021	.021	.021	.022	.022	.022
38	52	.015	.016	.016	.016	.017	.017	.017	.018	.018	.018	.018	.019	.019	.019	.020
39	51	.013	.013	.014	.014	.014	.015	.015	.015	.015	.016	.016	.016	.016	.017	.017
40	50	.011	.011	.011	.012	.012	.012	.012	.013	.013	.013	.013	.013	.014	.014	.014
41	49	.009	.009	.009	.009	.010	.010	.010	.010	.010	.010	.011	.011	.011	.011	.011
42	48	.007	.007	.007	.007	.007	.007	.007	.008	.008	.008	.008	.008	.008	.008	.009
43	47	.004	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.006	.006	.006
44	46	.002	.002	.002	.002	.002	.002	.002	.003	.003	.003	.003	.003	.003	.003	.003
45	45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## BAROMETER TABLES—V.

Reduction of Barometer to standard gravity.

*Height correction.*

Height in feet.	HEIGHT OF BAROMETER IN INCHES.													
	23	24	25	26	27	28	29	30	31					
500					0'001	0'001	0'001	0'001	0'001					
1000					'002	'002	'002	'002	'002					
1500				0'002	'002	'003	'003	'003						
2000				'003	'003	'003	'003	'004						
2500			0'004	'004	'004	'004	'004							
3000			'004	'005	'005	'005	'005							
3500		0'005	'005	'005	'006	'006								
4000		'006	'006	'006	'006	'007								
4500	0'006	'006	'007	'007	'007									
5000	'007	'007	'007	'008	'008									

## BAROMETER TABLES—VI.

Daily range of barometer.

*Latitude 0 to 30°.*

Hour.	Inches.	Hour.	Inches.	Hour.	Inches.	Hour.	Inches.
Midnight	+ '014	6	+ '004	Noon	+ '016	18	— '037
1	+ '001	7	+ '025	13	— '012	19	— '017
2	— '013	8	+ '044	14	— '035	20	+ '004
3	— '020	9	+ '055	15	— '052	21	+ '010
4	— '020	10	+ '053	16	— '057	22	+ '027
5	— '012	11	+ '039	17	— '051	23	+ '024



# BAROMETER TABLES—VII.

Reduction of Barometer to Sea-Level.

Temperature and humidity term = Log. A + Log. B.

Mean Temperature of air column.	MEAN RELATIVE HUMIDITY OF AIR COLUMN.											Mean Temperature of air column.
	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %	
0	4.7523	4.7523	4.7523	4.7523	4.7524	4.7524	4.7524	4.7525	4.7525	4.7525	4.7525	0
1	.7532	.7532	.7533	.7533	.7533	.7534	.7534	.7534	.7534	.7535	.7535	1
2	.7542	.7542	.7542	.7542	.7543	.7543	.7543	.7543	.7544	.7544	.7544	2
3	.7551	.7551	.7552	.7552	.7552	.7552	.7553	.7553	.7553	.7554	.7554	3
4	.7560	.7561	.7561	.7561	.7562	.7562	.7562	.7562	.7563	.7563	.7563	4
5	.7570	.7570	.7570	.7571	.7571	.7571	.7572	.7572	.7572	.7573	.7573	5
6	.7579	.7579	.7580	.7580	.7580	.7581	.7581	.7581	.7582	.7582	.7582	6
7	.7588	.7589	.7589	.7589	.7590	.7590	.7590	.7591	.7591	.7592	.7592	7
8	.7598	.7598	.7598	.7599	.7599	.7600	.7600	.7600	.7601	.7601	.7601	8
9	.7607	.7607	.7608	.7608	.7608	.7609	.7609	.7610	.7610	.7610	.7611	9
10	.7616	.7616	.7617	.7617	.7618	.7618	.7618	.7619	.7619	.7620	.7620	10
11	.7625	.7626	.7626	.7627	.7627	.7628	.7628	.7628	.7629	.7629	.7630	11
12	.7635	.7635	.7636	.7636	.7636	.7637	.7637	.7638	.7638	.7639	.7639	12
13	.7644	.7644	.7645	.7645	.7646	.7646	.7647	.7647	.7648	.7648	.7648	13
14	.7653	.7654	.7654	.7654	.7655	.7656	.7656	.7656	.7657	.7657	.7658	14
15	.7662	.7663	.7663	.7664	.7664	.7665	.7665	.7666	.7666	.7667	.7667	15
16	.7671	.7672	.7672	.7673	.7673	.7674	.7674	.7675	.7676	.7676	.7677	16
17	.7680	.7681	.7682	.7682	.7683	.7683	.7684	.7684	.7685	.7685	.7686	17
18	.7690	.7690	.7691	.7691	.7692	.7692	.7693	.7694	.7694	.7695	.7695	18
19	.7699	.7699	.7700	.7700	.7701	.7702	.7702	.7703	.7704	.7704	.7705	19
20	.7708	.7708	.7709	.7710	.7710	.7711	.7712	.7712	.7713	.7713	.7714	20
21	.7717	.7717	.7718	.7719	.7719	.7720	.7721	.7721	.7722	.7723	.7723	21
22	.7726	.7726	.7727	.7728	.7728	.7729	.7730	.7731	.7731	.7732	.7732	22
23	.7735	.7735	.7736	.7737	.7738	.7738	.7739	.7740	.7740	.7741	.7742	23
24	.7744	.7744	.7745	.7746	.7747	.7747	.7748	.7749	.7750	.7750	.7751	24
25	.7753	.7754	.7754	.7755	.7756	.7757	.7757	.7758	.7759	.7760	.7760	25
26	.7762	.7762	.7763	.7764	.7765	.7766	.7766	.7767	.7768	.7769	.7770	26
27	.7770	.7771	.7772	.7773	.7774	.7775	.7776	.7776	.7777	.7778	.7779	27
28	.7779	.7780	.7781	.7782	.7783	.7784	.7785	.7786	.7786	.7787	.7788	28
29	.7788	.7789	.7790	.7791	.7792	.7793	.7794	.7795	.7796	.7796	.7797	29
30	.7797	.7798	.7799	.7800	.7801	.7802	.7803	.7804	.7805	.7806	.7807	30
31	.7806	.7807	.7808	.7809	.7810	.7811	.7812	.7813	.7814	.7815	.7816	31
32	.7815	.7816	.7817	.7818	.7819	.7820	.7821	.7822	.7823	.7824	.7825	32
33	.7824	.7825	.7826	.7827	.7828	.7829	.7830	.7831	.7832	.7833	.7834	33
34	.7833	.7834	.7835	.7836	.7837	.7838	.7839	.7840	.7842	.7843	.7844	34
35	.7841	.7842	.7844	.7845	.7846	.7847	.7848	.7849	.7851	.7852	.7853	35
36	.7850	.7851	.7852	.7854	.7855	.7856	.7857	.7859	.7860	.7861	.7862	36
37	.7859	.7860	.7861	.7863	.7864	.7865	.7866	.7868	.7869	.7870	.7872	37
38	.7868	.7869	.7870	.7872	.7873	.7874	.7876	.7877	.7878	.7880	.7881	38
39	.7876	.7878	.7879	.7880	.7882	.7883	.7884	.7886	.7887	.7889	.7890	39

# BAROMETER TABLES—VII.

Reduction of Barometer to Sea-Level.  
*Temperature and humidity term = Log. A + Log. B.*

Mean Tempera- ture of air column.	MEAN RELATIVE HUMIDITY OF AIR COLUMN.											Mean Tempera- ture of air column.
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	1 0%	
40	4.7885	4.7886	4.7888	4.7889	4.7891	4.7892	4.7894	4.7895	4.7896	4.7898	4.7899	40
41	.7894	.7895	.7897	.7898	.7900	.7901	.7903	.7904	.7906	.7907	.7908	41
42	.7902	.7904	.7906	.7907	.7909	.7910	.7912	.7913	.7915	.7916	.7918	42
43	.7911	.7913	.7914	.7916	.7918	.7919	.7921	.7922	.7924	.7925	.7927	43
44	.7920	.7921	.7923	.7925	.7926	.7928	.7930	.7931	.7933	.7935	.7936	44
45	.7928	.7930	.7932	.7933	.7935	.7937	.7939	.7940	.7942	.7944	.7946	45
46	.7937	.7939	.7940	.7942	.7944	.7946	.7948	.7949	.7951	.7953	.7955	46
47	.7945	.7947	.7949	.7951	.7953	.7955	.7957	.7958	.7960	.7962	.7964	47
48	.7954	.7956	.7958	.7960	.7962	.7964	.7966	.7967	.7969	.7971	.7973	48
49	.7962	.7964	.7966	.7968	.7970	.7972	.7974	.7977	.7979	.7981	.7982	49
50	.7971	.7973	.7975	.7977	.7979	.7982	.7984	.7986	.7988	.7990	.7992	50
51	.7980	.7982	.7984	.7986	.7988	.7990	.7992	.7995	.7997	.7999	.8001	51
52	.7988	.7990	.7992	.7995	.7997	.7999	.8002	.8004	.8006	.8008	.8010	52
53	.7997	.7999	.8001	.8004	.8006	.8008	.8010	.8013	.8015	.8018	.8020	53
54	.8005	.8007	.8010	.8012	.8015	.8017	.8019	.8022	.8024	.8027	.8029	54
55	.8014	.8016	.8018	.8021	.8024	.8026	.8028	.8031	.8034	.8036	.8038	55
56	.8022	.8024	.8027	.8030	.8032	.8035	.8037	.8040	.8043	.8045	.8048	56
57	.8030	.8033	.8036	.8038	.8041	.8044	.8046	.8049	.8052	.8054	.8057	57
58	.8039	.8042	.8044	.8047	.8050	.8053	.8055	.8058	.8061	.8064	.8067	58
59	.8047	.8050	.8053	.8056	.8059	.8061	.8064	.8067	.8070	.8073	.8076	59
60	.8056	.8058	.8062	.8064	.8067	.8070	.8073	.8076	.8079	.8082	.8085	60
61	.8064	.8067	.8070	.8073	.8076	.8079	.8082	.8086	.8089	.8092	.8095	61
62	.8072	.8075	.8079	.8082	.8085	.8088	.8091	.8095	.8098	.8101	.8104	62
63	.8080	.8084	.8087	.8090	.8094	.8097	.8100	.8104	.8107	.8110	.8114	63
64	.8089	.8092	.8096	.8099	.8102	.8106	.8109	.8113	.8116	.8120	.8123	64
65	.8097	.8101	.8104	.8108	.8111	.8115	.8118	.8122	.8126	.8129	.8133	65
66	.8105	.8109	.8113	.8116	.8120	.8124	.8127	.8131	.8135	.8139	.8142	66
67	.8114	.8117	.8121	.8125	.8129	.8133	.8136	.8140	.8144	.8148	.8152	67
68	.8122	.8126	.8130	.8134	.8138	.8142	.8146	.8149	.8153	.8157	.8161	68
69	.8130	.8134	.8138	.8142	.8146	.8150	.8154	.8159	.8163	.8167	.8171	69
70	.8138	.8142	.8147	.8151	.8155	.8159	.8164	.8167	.8172	.8176	.8181	70
71	.8146	.8151	.8155	.8160	.8164	.8168	.8173	.8177	.8182	.8186	.8190	71
72	.8155	.8159	.8164	.8168	.8173	.8177	.8182	.8186	.8191	.8195	.8200	72
73	.8163	.8167	.8172	.8177	.8182	.8186	.8191	.8196	.8200	.8205	.8210	73
74	.8171	.8176	.8181	.8185	.8190	.8195	.8200	.8205	.8210	.8215	.8220	74
75	.8179	.8184	.8189	.8194	.8199	.8204	.8209	.8214	.8219	.8224	.8229	75
76	.8187	.8192	.8197	.8203	.8208	.8213	.8218	.8223	.8229	.8234	.8239	76
77	.8195	.8201	.8206	.8211	.8217	.8222	.8227	.8233	.8238	.8244	.8249	77
78	.8203	.8209	.8214	.8220	.8225	.8231	.8236	.8242	.8248	.8253	.8259	78
79	.8211	.8217	.8223	.8229	.8234	.8240	.8246	.8252	.8257	.8263	.8269	79

# BAROMETER TABLES—VII.

Reduction of Barometer to Sea-Level.

*Temperature and humidity term = Log. A + Log. B.*

Mean Tempera- ture of air column.	MEAN RELATIVE HUMIDITY OF AIR COLUMN.											Mean Tempera- ture of air column.
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
80	4.8220	4.8225	4.8231	4.8237	4.8243	4.8249	4.8255	4.8261	4.8267	4.8273	4.8279	80
81	.8228	.8234	.8240	.8246	.8252	.8258	.8264	.8270	.8276	.8282	.8288	81
82	.8236	.8242	.8248	.8254	.8261	.8267	.8273	.8280	.8286	.8292	.8299	82
83	.8244	.8250	.8256	.8263	.8270	.8276	.8283	.8289	.8296	.8302	.8309	83
84	.8252	.8258	.8265	.8272	.8278	.8285	.8292	.8299	.8306	.8312	.8319	84
85	.8260	.8266	.8273	.8280	.8287	.8294	.8301	.8308	.8315	.8322	.8329	85
86	.8268	.8275	.8282	.8289	.8296	.8303	.8311	.8318	.8325	.8332	.8340	86
87	.8275	.8283	.8290	.8298	.8305	.8312	.8320	.8327	.8335	.8342	.8350	87
88	.8283	.8291	.8299	.8306	.8314	.8322	.8329	.8337	.8344	.8352	.8360	88
89	.8291	.8299	.8307	.8315	.8323	.8331	.8339	.8347	.8355	.8363	.8371	89
90	.8299	.8307	.8316	.8324	.8332	.8340	.8348	.8356	.8365	.8373	.8381	90
91	.8307	.8316	.8324	.8332	.8341	.8349	.8358	.8366	.8374	.8383	.8392	91
92	.8315	.8324	.8332	.8341	.8350	.8358	.8367	.8376	.8385	.8393	.8402	92
93	.8323	.8332	.8341	.8350	.8359	.8368	.8377	.8386	.8395	.8404	.8413	93
94	.8331	.8340	.8349	.8358	.8368	.8377	.8386	.8396	.8405	.8414	.8424	94
95	.8338	.8348	.8358	.8367	.8377	.8386	.8396	.8405	.8415	.8425	.8434	95
96	.8346	.8356	.8366	.8376	.8386	.8395	.8405	.8415	.8425	.8435	.8445	96
97	.8354	.8364	.8374	.8384	.8395	.8405	.8415	.8425	.8435	.8446	.8456	97
98	.8362	.8372	.8383	.8393	.8404	.8414	.8425	.8435	.8446	.8456	.8467	98
99	.8370	.8380	.8391	.8402	.8413	.8424	.8434	.8445	.8456	.8467	.8478	99
100	.8378	.8389	.8400	.8411	.8422	.8433	.8444	.8456	.8467	.8478	.8489	100

# BAROMETER TABLES—VIII.

Reduction of Barometer to Sea-Level.

*Latitude term = Log. C.*

Latitude	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	Latitude
0°	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0°
10°	0.0011	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0009	0.0009	0.0009	10°
20°	0.0009	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0006	0.0006	20°
30°	0.0006	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0003	0.0003	0.0002	30°
40°	0.0002	0.0002	0.0001	0.0001	0	0	0	1.9999	1.9999	1.9998	40°
50°	1.9998	1.9998	1.9997	1.9997	1.9997	1.9996	1.9996	1.9995	1.9995	1.9995	50°
60°	1.9994	1.9994	1.9994	1.9993	1.9993	1.9993	1.9993	1.9992	1.9992	1.9992	60°
70°	1.9991	1.9991	1.9991	1.9991	1.9991	1.9990	1.9990	1.9990	1.9990	1.9990	70°
80°	1.9989	1.9989	1.9989	1.9989	1.9989	1.9989	1.9989	1.9989	1.9989	1.9989	80°

# HUMIDITY TABLES—IX.

## Vapour Pressure.

*In inches of mercury in the latitude of 45° at sea-level.*

F°	Inch.	F°	Inch.	F°	Inch.	F°	Inch.	F°	Inch.	F°	Inch.
0·0	·0449	8·0	·0649	16·0	·0924	24·0	·1297	32·0	·1799	40·0	·2465
·2	·0454	·2	·0655	·2	·0932	·2	·1308	·2	·1813	·2	·2484
·4	·0458	·4	·0661	·4	·0940	·4	·1319	·4	·1828	·4	·2503
·6	·0462	·6	·0667	·6	·0948	·6	·1330	·6	·1842	·6	·2523
·8	·0467	·8	·0673	·8	·0956	·8	·1341	·8	·1857	·8	·2542
1·0	·0471	9·0	·0679	17·0	·0965	25·0	·1352	33·0	·1872	41·0	·2562
·2	·0475	·2	·0685	·2	·0973	·2	·1364	·2	·1887	·2	·2582
·4	·0480	·4	·0691	·4	·0981	·4	·1375	·4	·1902	·4	·2601
·6	·0484	·6	·0697	·6	·0990	·6	·1386	·6	·1917	·6	·2621
·8	·0489	·8	·0704	·8	·0999	·8	·1398	·8	·1933	·8	·2642
2·0	·0493	10·0	·0710	18·0	·1007	26·0	·1409	34·0	·1948	42·0	·2662
·2	·0498	·2	·0716	·2	·1016	·2	·1421	·2	·1964	·2	·2683
·4	·0503	·4	·0723	·4	·1024	·4	·1433	·4	·1979	·4	·2703
·6	·0507	·6	·0729	·6	·1033	·6	·1445	·6	·1995	·6	·2724
·8	·0512	·8	·0736	·8	·1042	·8	·1457	·8	·2011	·8	·2745
3·0	·0517	11·0	·0742	19·0	·1051	27·0	·1469	35·0	·2027	43·0	·2766
·2	·0522	·2	·0749	·2	·1060	·2	·1481	·2	·2043	·2	·2787
·4	·0526	·4	·0756	·4	·1069	·4	·1493	·4	·2059	·4	·2808
·6	·0531	·6	·0762	·6	·1078	·6	·1505	·6	·2076	·6	·2830
·8	·0536	·8	·0769	·8	·1087	·8	·1518	·8	·2092	·8	·2851
4·0	·0541	12·0	·0776	20·0	·1097	28·0	·1530	36·0	·2109	44·0	·2873
·2	·0546	·2	·0783	·2	·1106	·2	·1543	·2	·2125	·2	·2895
·4	·0551	·4	·0790	·4	·1115	·4	·1555	·4	·2142	·4	·2917
·6	·0556	·6	·0797	·6	·1125	·6	·1568	·6	·2159	·6	·2939
·8	·0561	·8	·0804	·8	·1134	·8	·1581	·8	·2176	·8	·2962
5·0	·0567	13·0	·0811	21·0	·1144	29·0	·1594	37·0	·2193	45·0	·2984
·2	·0572	·2	·0818	·2	·1154	·2	·1607	·2	·2210	·2	·3007
·4	·0577	·4	·0825	·4	·1163	·4	·1620	·4	·2228	·4	·3030
·6	·0582	·6	·0832	·6	·1173	·6	·1633	·6	·2245	·6	·3053
·8	·0588	·8	·0840	·8	·1183	·8	·1646	·8	·2263	·8	·3076
6·0	·0593	14·0	·0847	22·0	·1193	30·0	·1660	38·0	·2281	46·0	·3099
·2	·0598	·2	·0854	·2	·1203	·2	·1673	·2	·2298	·2	·3123
·4	·0604	·4	·0862	·4	·1213	·4	·1687	·4	·2316	·4	·3146
·6	·0609	·6	·0869	·6	·1223	·6	·1700	·6	·2334	·6	·3170
·8	·0615	·8	·0877	·8	·1234	·8	·1714	·8	·2353	·8	·3194
7·0	·0620	15·0	·0885	23·0	·1244	31·0	·1728	39·0	·2371	47·0	·3218
·2	·0626	·2	·0892	·2	·1255	·2	·1742	·2	·2390	·2	·3242
·4	·0632	·4	·0900	·4	·1265	·4	·1756	·4	·2408	·4	·3267
·6	·0637	·6	·0908	·6	·1276	·6	·1770	·6	·2427	·6	·3291
·8	·0643	·8	·0916	·8	·1287	·8	·1784	·8	·2446	·8	·3316

# HUMIDITY TABLES—IX.

## Vapour Pressure.

*In inches of mercury in the latitude of 45° at sea-level—contd.*

F°	Inch.	F°	Inch.	F°	Inch.	F°	Inch.	F°	Inch.	F°	Inch.
48°0	·3341	56°0	·4481	64°0	·5952	72°0	·7834	80°0	1·0219	88°0	1·3220
·2	·3366	·2	·4513	·2	·5994	·2	·7887	·2	1·0286	·2	1·3304
·4	·3391	·4	·4546	·4	·6036	·4	·7940	·4	1·0354	·4	1·3388
·6	·3416	·6	·4579	·6	·6078	·6	·7994	·6	1·0422	·6	1·3473
·8	·3442	·8	·4612	·8	·6120	·8	·8048	·8	1·0490	·8	1·3558
49°0	·3467	57°0	·4645	65°0	·6163	73°0	·8102	81°0	1·0558	89°0	1·3644
·2	·3493	·2	·4679	·2	·6206	·2	·8157	·2	1·0627	·2	1·3731
·4	·3519	·4	·4712	·4	·6249	·4	·8212	·4	1·0697	·4	1·3818
·6	·3546	·6	·4746	·6	·6293	·6	·8267	·6	1·0767	·6	1·3905
·8	·3572	·8	·4780	·8	·6337	·8	·8323	·8	1·0837	·8	1·3993
50°0	·3598	58°0	·4815	66°0	·6381	74°0	·8379	82°0	1·0907	90°0	1·4081
·2	·3625	·2	·4849	·2	·6425	·2	·8435	·2	1·0978	·2	1·4170
·4	·3652	·4	·4884	·4	·6470	·4	·8492	·4	1·1050	·4	1·4259
·6	·3679	·6	·4919	·6	·6514	·6	·8549	·6	1·1121	·6	1·4349
·8	·3706	·8	·4954	·8	·6560	·8	·8606	·8	1·1194	·8	1·4439
51°0	·3734	59°0	·4990	67°0	·6605	75°0	·8664	83°0	1·1266	91°0	1·4530
·2	·3761	·2	·5025	·2	·6651	·2	·8722	·2	1·1339	·2	1·4621
·4	·3789	·4	·5061	·4	·6697	·4	·8780	·4	1·1413	·4	1·4712
·6	·3817	·6	·5097	·6	·6743	·6	·8839	·6	1·1487	·6	1·4805
·8	·3845	·8	·5134	·8	·6789	·8	·8898	·8	1·1561	·8	1·4897
52°0	·3874	60°0	·5170	68°0	·6836	76°0	·8957	84°0	1·1635	92°0	1·4990
·2	·3902	·2	·5207	·2	·6883	·2	·9017	·2	1·1710	·2	1·5084
·4	·3931	·4	·5244	·4	·6930	·4	·9077	·4	1·1786	·4	1·5178
·6	·3960	·6	·5282	·6	·6978	·6	·9137	·6	1·1862	·6	1·5273
·8	·3989	·8	·5319	·8	·7026	·8	·9198	·8	1·1938	·8	1·5368
53°0	·4018	61°0	·5357	69°0	·7074	77°0	·9259	85°0	1·2015	93°0	1·5464
·2	·4048	·2	·5395	·2	·7123	·2	·9321	·2	1·2093	·2	1·5560
·4	·4077	·4	·5433	·4	·7172	·4	·9383	·4	1·2170	·4	1·5657
·6	·4107	·6	·5471	·6	·7221	·6	·9445	·6	1·2248	·6	1·5755
·8	·4137	·8	·5510	·8	·7270	·8	·9507	·8	1·2327	·8	1·5853
54°0	·4168	62°0	·5549	70°0	·7320	78°0	·9570	86°0	1·2406	94°0	1·5951
·2	·4198	·2	·5588	·2	·7370	·2	·9633	·2	1·2485	·2	1·6050
·4	·4229	·4	·5628	·4	·7420	·4	·9697	·4	1·2565	·4	1·6146
·6	·4259	·6	·5667	·6	·7471	·6	·9761	·6	1·2645	·6	1·6249
·8	·4290	·8	·5707	·8	·7522	·8	·9825	·8	1·2726	·8	1·6350
55°0	·4322	63°0	·5748	71°0	·7573	79°0	·9890	87°0	1·2807	95°0	1·6451
·2	·4353	·2	·5788	·2	·7625	·2	·9955	·2	1·2889	·2	1·6552
·4	·4385	·4	·5829	·4	·7676	·4	1·0021	·4	1·2971	·4	1·6655
·6	·4417	·6	·5870	·6	·7728	·6	1·0087	·6	1·3054	·6	1·6758
·8	·4449	·8	·5911	·8	·7781	·8	1·0153	·8	1·3137	·8	1·6861

# INDEX

TO THE

## HUMIDITY TABLES—X.

PRESSURE 29"·7.

Wet bulb.	Dry bulb — Wet bulb.			
	° 0 to 9·5	° 10 to 19·5	° 20 to 29·5	° 30 to 39·5
0 to 19	23			
20 to 39	24	25		
40 to 59	26	27	28	29
60 to 79	30	31	32	33
80 to 89	34	35	34	35

**ABSOLUTE HUMIDITIES** in inches of mercury at 32° F. and at sea-level at 45° latitude are given in ordinary type.

**RELATIVE HUMIDITIES** are given in *italics*.

# HUMIDITY TABLES—X.

B. = 29° 74  
W. B. = 0 to 100°  
t. = t' = 0 to 9° 5.

Absolute and Relative Humidities.

Pressure 29° 7.

Wet bulb.	DRY BULB—WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
0	.045 100	.039 85	.033 71	.028 58	.022 44	.016 32	.010 20	.005												
1	.047 100	.041 86	.036 72	.030 59	.024 47	.018 35	.013 23	.007 13	.001 2											
2	.049 100	.044 87	.038 73	.032 61	.026 49	.020 37	.015 26	.009 16	.003 5											
3	.052 100	.046 87	.040 74	.034 62	.029 51	.023 40	.017 29	.011 19	.006 9											
4	.054 100	.048 88	.043 75	.037 64	.031 52	.025 42	.020 31	.014 22	.008 12	.002										
5	.057 100	.051 88	.045 76	.039 65	.034 54	.028 44	.022 34	.016 25	.010 15	.005										
6	.059 100	.054 88	.048 77	.042 66	.036 56	.030 46	.025 36	.019 27	.013 18	.007 10	.002 2									
7	.062 100	.056 89	.050 78	.045 67	.039 57	.033 48	.027 38	.022 30	.016 21	.010 13	.004 6									
8	.065 100	.059 89	.053 78	.048 69	.042 59	.036 50	.030 41	.024 32	.019 24	.013 16	.007 9	.001								
9	.068 100	.062 90	.056 79	.050 70	.045 60	.039 52	.033 43	.027 35	.022 27	.016 19	.010 12	.004								
10	.071 100	.065 90	.059 80	.054 71	.048 62	.042 53	.036 45	.030 37	.025 29	.019 22	.013 15	.007 8	.002 2							
11	.074 100	.068 90	.063 81	.057 72	.051 63	.045 55	.039 47	.034 39	.028 31	.022 24	.016 18	.010 11	.005 5							
12	.078 100	.072 91	.066 81	.060 73	.054 64	.049 56	.043 48	.037 41	.031 34	.025 27	.020 20	.014 14	.008 8	.002						
13	.081 100	.075 91	.070 82	.064 74	.058 65	.052 58	.046 50	.040 43	.035 36	.029 29	.023 23	.017 17	.011 11	.006						
14	.085 100	.079 91	.073 83	.067 75	.061 66	.056 59	.050 52	.044 45	.038 38	.032 32	.027 25	.021 19	.015 14	.009 8	.003 3					
15	.088 100	.083 92	.077 83	.071 75	.065 68	.059 60	.054 53	.048 47	.042 40	.036 34	.030 28	.024 22	.019 16	.013 11	.007 6	.001				
16	.092 100	.087 92	.081 84	.075 76	.069 69	.063 62	.058 55	.052 48	.046 42	.040 36	.034 30	.028 24	.022 19	.017 14	.011 9	.005				
17	.096 100	.091 92	.085 84	.079 77	.073 70	.067 63	.062 56	.056 50	.050 44	.044 38	.038 32	.032 27	.027 21	.021 16	.015 11	.009 7	.003 2			
18	.101 100	.095 92	.089 85	.083 78	.077 70	.072 64	.066 57	.060 51	.054 45	.048 40	.042 34	.036 29	.031 24	.025 19	.019 14	.013 10	.007 5	.002		
19	.105 100	.099 92	.093 85	.088 78	.082 71	.076 65	.070 59	.064 53	.058 47	.053 41	.047 37	.041 31	.035 26	.029 21	.023 17	.018 12	.012 8	.006		

Continued on page 24.

B. = 29° 7  
W. B. = 20° to 39°.  
t. = 0 to 9° 5.

# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29° 7.

Wet bulb.	DRY BULB — WET BULB.																		
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
20	.110 109	.104 93	.098 86	.092 79	.086 72	.080 66	.075 60	.069 54	.063 49	.057 43	.051 38	.045 33	.040 28	.034 24	.028 19	.022 15	.016 11	.010 7	.004 3
21	.114 100	.109 93	.103 86	.097 80	.091 73	.085 67	.079 61	.074 56	.068 50	.062 45	.056 40	.050 35	.044 30	.038 26	.032 21	.027 17	.021 13	.015 9	.009 5
22	.119 100	.113 93	.108 86	.102 80	.096 74	.090 68	.084 62	.078 57	.072 51	.067 46	.061 41	.055 37	.049 32	.043 28	.037 23	.032 19	.026 15	.020 12	.014 8
23	.124 100	.119 93	.113 87	.107 81	.101 75	.095 69	.089 63	.083 58	.078 53	.072 48	.066 43	.060 38	.054 34	.048 30	.042 26	.036 22	.031 18	.025 14	.019 11
24	.130 100	.124 94	.118 87	.112 81	.106 75	.100 70	.094 64	.089 59	.083 54	.077 49	.071 45	.065 40	.059 36	.054 32	.048 28	.042 24	.036 20	.030 16	.024 13
25	.135 100	.129 94	.124 88	.118 82	.112 76	.106 71	.100 65	.094 60	.088 55	.082 51	.077 46	.071 42	.065 37	.059 33	.053 30	.047 26	.041 22	.036 19	.030 15
26	.141 100	.135 94	.129 88	.123 82	.117 77	.112 71	.106 66	.100 61	.094 57	.088 52	.082 48	.076 43	.070 39	.065 35	.059 31	.053 28	.047 24	.041 21	.035 17
27	.147 100	.141 94	.135 88	.129 83	.123 77	.118 72	.112 67	.106 62	.100 58	.094 53	.088 49	.082 45	.076 41	.070 37	.065 33	.059 30	.053 26	.047 23	.041 19
28	.153 100	.147 94	.141 89	.135 83	.130 78	.124 73	.118 68	.112 63	.106 59	.100 55	.094 50	.088 46	.082 42	.076 39	.071 35	.065 31	.059 28	.053 25	.047 21
29	.159 100	.154 94	.148 89	.142 84	.136 79	.130 74	.124 69	.118 64	.112 60	.106 56	.100 52	.095 48	.089 44	.083 40	.077 37	.071 33	.065 30	.059 27	.054 23
30	.166 100	.160 95	.154 89	.148 84	.142 79	.137 74	.131 70	.125 65	.119 61	.113 57	.107 53	.101 49	.095 45	.089 42	.084 38	.078 35	.072 31	.066 28	.060 25
31	.173 100	.167 95	.161 89	.155 84	.149 80	.143 75	.137 70	.132 66	.126 62	.120 58	.114 54	.108 50	.102 46	.096 43	.090 39	.084 36	.079 33	.073 30	.067 27
32	.180 100	.174 95	.168 89	.161 84	.155 80	.149 75	.143 70	.137 66	.130 62	.124 58	.118 54	.112 50	.106 46	.099 43	.093 39	.087 36	.081 33	.075 30	.068 27
33	.187 100	.181 95	.174 89	.168 84	.161 80	.155 75	.148 70	.142 66	.135 62	.129 58	.122 54	.116 50	.109 46	.103 43	.096 39	.090 36	.083 33	.077 30	.070 27
34	.195 100	.188 95	.182 90	.175 85	.169 80	.162 76	.156 71	.149 67	.143 63	.136 59	.130 55	.123 51	.117 47	.110 44	.104 40	.097 37	.091 34	.084 31	.078 28
35	.203 100	.196 95	.190 90	.183 85	.177 81	.170 76	.164 72	.157 68	.151 64	.144 60	.138 56	.131 52	.125 49	.118 45	.112 42	.105 39	.098 36	.092 33	.086 30
36	.211 100	.204 95	.198 90	.191 86	.185 81	.178 77	.172 72	.165 68	.159 64	.152 61	.146 57	.139 53	.133 50	.126 47	.120 43	.113 40	.107 37	.100 34	.094 31
37	.219 100	.213 95	.206 90	.200 86	.193 81	.187 77	.180 73	.174 69	.167 65	.161 62	.154 58	.148 54	.141 51	.134 48	.128 45	.122 42	.115 38	.108 36	.102 33
38	.228 100	.222 95	.215 91	.209 86	.202 82	.195 78	.189 74	.182 70	.176 66	.169 62	.163 59	.156 56	.150 52	.143 49	.137 46	.130 43	.124 40	.117 37	.111 34
39	.237 100	.231 95	.224 91	.218 87	.211 82	.204 78	.198 74	.191 71	.185 67	.178 63	.172 60	.165 56	.159 53	.152 50	.146 47	.139 44	.133 41	.126 38	.120 36

Continued on page 26.



# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29".7.

B. = 29".7.  
W. B. = 20° to 39°.  
t. — t'. = 10° 0 to 19° 5.

Wet bulb.	DRY BULB — WET BULB.																		
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0
20																			
21																			
22	·002 1																		
23	·007 4	·001																	
24	·012 6	·007 5	·001 3																
25	·018 9	·012 6	·006 3																
26	·024 11	·018 8	·012 5	·006															
27	·029 13	·024 11	·018 8	·012 5	·006 2														
28	·035 16	·030 13	·024 10	·018 7	·012 5	·006 2													
29	·042 18	·036 15	·030 12	·024 10	·018 7	·012 5	·006 2												
30	·048 20	·042 17	·036 14	·030 12	·025 9	·019 7	·013 5	·007 2	·001										
31	·055 21	·049 18	·043 16	·037 13	·031 11	·025 9	·020 6	·014 4	·008 2	·002									
32	·056 21	·050 18	·044 16	·037 13	·031 11	·025 9	·019 6	·013 4	·006 2										
33	·057 21	·051 18	·044 15	·038 13	·031 10	·025 8	·018 6	·012 4	·005 2										
34	·065 23	·058 20	·052 17	·045 15	·039 12	·032 10	·026 8	·019 6	·013 4	·006									
35	·072 24	·066 22	·060 19	·053 17	·046 14	·040 12	·033 10	·027 8	·020 6	·014 4	·007 2	·001							
36	·081 26	·074 23	·068 21	·061 19	·054 16	·048 14	·042 12	·035 10	·028 8	022 6	·015 4	·009 2	·002 1						
37	·089 28	·082 25	·076 23	·069 20	·063 18	·056 16	·050 14	·043 12	·037 10	·030 8	·024 6	·017 4	·011 3	·004					
38	·098 29	·091 27	·084 24	·078 22	·071 20	·065 18	·058 16	·052 14	·045 12	·039 10	·032 8	·026 6	·019 5	·013 3	·006 1				
39	·106 31	·100 28	·093 26	·087 24	·080 22	·074 19	·067 17	·061 15	·054 13	·048 12	·041 10	·034 8	·028 6	·022 5	·015 3	·008 2	·002		

Continued on page 27.

B. = 29°·7'.  
W. B. = 40° to 59°.  
t. - t'. = 0 to 9°·5.

# HUMIDITY TABLES - X.

Absolute and Relative Humidities.

Pressure 29°·7.

Wet bulb.	DRY BULB - WET BULB.																			
	0	0·5	1·0	1·5	2·0	2·5	3·0	3·5	4·0	4·5	5·0	5·5	6·0	6·5	7·0	7·5	8·0	8·5	9·0	9·5
40	·246 100	·240 96	·233 91	·227 87	·220 83	·214 79	·207 75	·201 71	·194 68	·188 64	·181 61	·175 57	·168 54	·162 51	·155 48	·148 45	·142 42	·135 40	·129 37	·122 35
41	·256 100	·250 96	·243 91	·237 87	·230 83	·224 79	·217 75	·210 72	·204 68	·197 65	·191 62	·184 58	·178 55	·171 52	·165 49	·158 46	·152 44	·145 41	·138 38	·132 36
42	·263 100	·260 96	·253 91	·247 87	·240 84	·233 80	·227 76	·220 72	·214 69	·207 66	·201 62	·194 59	·188 56	·181 53	·174 50	·168 48	·161 45	·155 42	·148 40	·142 37
43	·277 100	·270 96	·264 92	·257 88	·250 84	·244 80	·237 77	·231 73	·224 70	·218 66	·211 63	·204 60	·198 57	·191 54	·185 51	·178 49	·172 46	·165 43	·159 41	·152 39
44	·287 100	·281 96	·274 92	·268 88	·261 84	·254 81	·248 77	·241 74	·235 70	·228 67	·222 64	·215 61	·209 58	·202 55	·196 52	·189 50	·182 47	·176 45	·169 42	·163 40
45	·298 100	·292 96	·285 92	·279 88	·272 85	·266 81	·259 78	·252 74	·246 71	·239 68	·233 65	·226 62	·220 59	·213 56	·206 53	·200 51	·193 48	·187 46	·180 43	·174 41
46	·310 100	·303 96	·297 92	·290 89	·284 85	·277 81	·270 78	·264 75	·257 72	·251 68	·244 65	·238 62	·231 60	·224 57	·218 54	·211 52	·205 49	·198 47	·192 44	·185 42
47	·322 100	·315 96	·309 92	·302 89	·296 85	·289 82	·282 78	·276 75	·269 72	·263 69	·256 66	·249 63	·243 60	·236 58	·230 55	·223 53	·217 50	·210 48	·203 45	·197 43
48	·334 100	·328 96	·321 93	·314 89	·308 86	·301 82	·295 79	·288 76	·281 73	·275 70	·268 67	·262 64	·255 61	·248 59	·242 56	·235 53	·229 51	·221 49	·216 46	·209 44
49	·347 100	·340 96	·334 93	·327 89	·320 86	·314 83	·307 79	·300 76	·294 73	·287 70	·281 67	·274 65	·268 62	·261 59	·254 57	·248 54	·241 52	·235 50	·228 47	·221 45
50	·360 100	·353 96	·347 93	·340 89	·333 86	·327 83	·320 80	·314 77	·307 74	·300 71	·294 68	·287 65	·281 63	·274 60	·267 58	·261 55	·254 53	·248 51	·241 48	·234 46
51	·373 100	·367 96	·360 93	·354 90	·347 86	·340 83	·334 80	·327 77	·321 74	·314 71	·307 69	·301 66	·294 63	·288 61	·281 58	·274 56	·268 54	·261 51	·254 49	·248 47
52	·387 100	·381 97	·374 93	·368 90	·361 87	·354 83	·348 80	·341 77	·334 75	·328 72	·321 69	·315 67	·308 64	·301 62	·295 59	·288 57	·282 54	·275 52	·268 50	·262 48
53	·402 100	·395 97	·389 93	·382 90	·375 87	·369 84	·362 81	·356 78	·349 75	·342 72	·336 70	·329 67	·322 65	·316 62	·309 60	·302 57	·296 55	·289 53	·283 51	·276 49
54	·417 100	·410 97	·404 93	·397 90	·390 87	·384 84	·377 81	·370 78	·364 76	·357 73	·351 70	·344 68	·337 65	·331 63	·324 61	·317 58	·311 56	·304 54	·298 52	·291 50
55	·432 100	·426 97	·419 93	·412 90	·406 87	·399 84	·392 81	·386 79	·379 76	·372 73	·366 71	·359 68	·353 66	·346 63	·339 61	·333 59	·326 57	·320 55	·313 53	·306 51
56	·448 100	·442 97	·435 94	·428 91	·422 88	·415 85	·408 82	·402 79	·395 76	·388 74	·382 71	·375 69	·368 66	·362 64	·355 62	·348 60	·342 57	·335 55	·329 53	·322 51
57	·464 100	·458 97	·451 94	·445 91	·438 88	·431 85	·425 82	·418 79	·411 77	·405 74	·398 72	·391 69	·385 67	·378 65	·372 62	·365 60	·358 58	·352 56	·345 54	·338 52
58	·482 100	·475 97	·468 94	·462 91	·455 88	·448 85	·442 82	·435 80	·428 77	·422 75	·415 72	·408 70	·402 67	·395 65	·388 63	·382 61	·375 59	·368 57	·362 55	·355 53
59	·499 100	·492 97	·486 94	·479 91	·472 88	·466 85	·459 83	·452 80	·446 78	·439 75	·432 73	·426 70	·419 68	·412 66	·406 64	·399 61	·392 59	·386 57	·379 55	·372 54

Continued on page 30.

# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29".7.

B. = 29".7.  
W. B. = 40° to 59°.  
t. — t'. = 10°·0 to 19°·5.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
40	.116 32	.109 30	.103 27	.096 25	.090 23	.083 21	.076 19	.070 17	.063 15	.057 13	.050 12	.044 10	.037 8	.031 7	.024 5	.018 4	.011 2	.004		
41	.125 34	.119 31	.112 29	.106 27	.099 25	.093 23	.086 21	.080 19	.073 17	.066 15	.060 13	.053 12	.047 10	.040 9	.034 7	.027 6	.020 4	.014 3	.008 1	.001 1
42	.135 35	.129 33	.122 30	.116 28	.109 26	.102 24	.096 22	.089 20	.083 18	.076 17	.070 15	.063 13	.056 12	.050 10	.043 9	.037 7	.030 6	.024 5	.017 3	.011 2
43	.145 36	.139 34	.132 32	.126 30	.119 28	.113 26	.106 24	.100 22	.093 20	.086 18	.080 17	.073 15	.067 13	.060 12	.054 10	.047 9	.040 8	.034 6	.027 5	.021 4
44	.156 37	.150 35	.143 33	.136 31	.130 29	.123 27	.117 25	.110 23	.104 21	.097 20	.090 18	.084 17	.077 15	.071 13	.064 12	.058 11	.051 9	.044 8	.038 7	.031 5
45	.167 39	.160 36	.154 34	.147 32	.141 30	.134 28	.128 26	.121 25	.114 23	.108 21	.101 20	.095 18	.088 16	.082 15	.075 14	.068 12	.062 11	.055 9	.049 8	.042 7
46	.178 40	.172 38	.165 36	.159 34	.152 32	.146 30	.139 28	.132 26	.126 24	.119 23	.113 21	.106 19	.100 18	.093 16	.086 15	.080 14	.073 12	.067 11	.060 10	.053 9
47	.190 41	.184 39	.177 37	.170 35	.164 33	.157 31	.151 29	.144 27	.138 26	.131 24	.124 22	.118 21	.111 19	.105 18	.098 16	.091 15	.085 14	.078 12	.072 11	.065 10
48	.202 42	.196 40	.189 38	.183 36	.176 34	.169 32	.163 30	.156 29	.150 27	.143 25	.136 24	.130 22	.123 21	.117 19	.110 18	.104 16	.097 15	.090 14	.084 13	.077 11
49	.215 43	.208 41	.202 39	.195 37	.188 35	.182 33	.175 32	.169 30	.162 28	.156 27	.149 25	.142 23	.136 22	.129 21	.122 19	.116 18	.109 17	.103 15	.096 14	.090 13
50	.228 44	.221 42	.215 40	.208 38	.201 36	.195 34	.188 33	.182 31	.175 29	.168 28	.162 26	.155 25	.149 23	.142 22	.135 20	.129 19	.122 18	.116 17	.109 15	.102 14
51	.241 45	.235 43	.228 41	.222 39	.215 37	.208 36	.202 34	.195 32	.188 31	.182 29	.175 27	.169 26	.162 25	.155 23	.149 22	.142 20	.136 19	.129 18	.122 17	.116 16
52	.255 46	.248 44	.242 42	.235 40	.229 38	.222 37	.216 35	.209 33	.202 32	.196 30	.189 29	.182 27	.176 26	.169 24	.163 23	.156 22	.149 20	.143 19	.136 18	.130 17
53	.269 47	.263 45	.256 43	.250 41	.243 39	.236 38	.230 36	.223 34	.217 33	.210 31	.203 30	.197 28	.190 27	.183 26	.177 24	.170 23	.164 22	.157 20	.150 19	.144 18
54	.284 48	.278 46	.271 44	.264 42	.258 40	.251 39	.245 37	.238 35	.231 34	.225 32	.218 31	.212 29	.205 28	.198 27	.192 25	.185 24	.178 23	.172 22	.165 20	.158 19
55	.300 49	.293 47	.286 45	.280 43	.273 41	.266 40	.260 38	.253 36	.247 35	.240 33	.233 32	.227 30	.220 29	.213 28	.207 26	.200 25	.194 24	.187 23	.180 22	.174 20
56	.315 49	.309 45	.302 46	.295 44	.289 42	.282 41	.276 39	.269 37	.262 36	.256 34	.249 33	.242 31	.236 30	.229 29	.222 27	.216 26	.209 25	.202 24	.196 23	.189 21
57	.332 50	.325 48	.318 47	.312 45	.305 43	.298 41	.292 40	.285 38	.278 37	.272 35	.265 34	.259 32	.252 31	.245 30	.239 28	.232 27	.225 26	.219 25	.212 24	.205 23
58	.348 51	.342 49	.335 47	.329 46	.322 44	.315 42	.309 41	.302 39	.295 38	.289 36	.282 35	.275 33	.269 32	.262 31	.255 29	.249 28	.242 27	.236 26	.229 25	.222 24
59	.366 52	.359 50	.353 48	.346 46	.339 45	.333 43	.326 42	.319 40	.313 39	.306 37	.299 36	.293 34	.286 33	.279 32	.273 30	.266 29	.259 28	.253 27	.246 26	.239 25

Continued on page 31.

B. = 29°·7.  
W. B. = 40° to 59°.  
t.—t'. = 20° to 29°·5.

# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29°·7.

DRY BULB — WET BULB.																				
Wet bulb.	20·0	20·5	21·0	21·5	22·0	22·5	23·0	23·5	24·0	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5
40																				
41																				
42	·004 1																			
43	·014 2	·008 1	·001																	
44	·025 4	·018 3	·012 2	·005																
45	·036 6	·029 5	·022 3	·015 2	·009 1	·003														
46	·047 7	·040 6	·034 5	·027 4	·021 3	·014 2	·007 1	·001												
47	·058 9	·052 8	·045 7	·039 6	·032 5	·026 4	·019 3	·012 2	·006 1											
48	·071 10	·064 9	·057 8	·051 7	·044 6	·038 5	·031 4	·024 3	·018 2	·011 1	·005 1									
49	·083 12	·076 11	·070 9	·063 8	·056 7	·050 6	·043 5	·037 4	·030 3	·024 2	·017 1	·010 1	·004							
50	·096 13	·089 12	·083 11	·076 10	·069 9	·063 8	·056 7	·050 6	·043 5	·036 4	·030 3	·023 3	·017 2	·010 1	·003					
51	·109 14	·103 13	·096 12	·089 11	·083 10	·076 9	·070 8	·063 7	·056 6	·050 5	·043 4	·036 3	·030 2	·023 2	·017 1	·010 1	·004			
52	·123 16	·116 15	·110 14	·103 13	·096 12	·090 11	·083 10	·077 9	·070 8	·063 7	·057 6	·050 5	·044 4	·037 3	·030 2	·024 2	·017 1	·011 1	·004	
53	·137 17	·130 16	·124 15	·117 14	·111 13	·104 12	·097 11	·091 10	·084 9	·078 8	·071 7	·064 6	·058 5	·051 4	·044 3	·038 2	·031 1	·025 1	·018 1	·011 1
54	·152 18	·145 17	·139 16	·132 15	·125 14	·119 13	·112 12	·106 11	·099 10	·092 9	·086 8	·079 7	·072 6	·066 5	·059 4	·052 3	·046 2	·039 1	·033 1	·026 1
55	·167 19	·160 18	·154 17	·147 16	·140 15	·134 14	·127 13	·121 12	·114 11	·107 10	·101 9	·094 8	·087 7	·081 6	·074 5	·068 4	·061 3	·054 2	·048 1	·041 1
56	·183 20	·176 19	·169 18	·163 17	·156 16	·149 15	·143 14	·136 13	·130 12	·123 11	·116 10	·110 9	·103 8	·096 7	·090 6	·083 5	·076 4	·070 3	·063 2	·056 1
57	·199 21	·192 20	·186 19	·179 18	·172 17	·166 16	·159 15	·152 14	·146 13	·139 12	·132 11	·126 10	·119 9	·112 8	·106 7	·099 6	·092 5	·086 4	·079 3	·073 2
58	·216 23	·209 21	·202 20	·196 19	·189 18	·182 17	·176 16	·169 15	·162 14	·156 13	·149 12	·142 11	·136 10	·129 9	·122 8	·116 7	·109 6	·102 5	·096 4	·089 3
59	·233 24	·226 22	·219 21	·213 20	·206 19	·200 18	·193 17	·186 16	·180 15	·173 14	·166 13	·160 12	·153 11	·146 10	·140 9	·133 8	·126 7	·120 6	·113 5	·106 4

Continued on page 32.

# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29"·7.

B. = 29"·7.  
W. B. = 40° to 59°.  
t.—t'. = 30°·0 to 39°·5.

Wet bulb.	DRY BULB — WET BULB.																			
	30·0	30·5	31·0	31·5	32·0	32·5	33·0	33·5	34·0	34·5	35·0	35·5	36·0	36·5	37·0	37·5	38·0	38·5	39·0	39·5
40																				
41																				
42																				
43																				
44																				
45																				
46																				
47																				
48																				
9																				
50																				
51																				
52																				
53	·005																			
54	·019 2	·013 1	·006 1																	
55	·034 3	·028 2	·021 2	·014 1	·008 1	·001														
56	·050 4	·043 3	·037 3	·030 2	·023 2	·017 1	·010 1													
57	·066 5	·059 5	·053 4	·046 3	·039 3	·033 2	·026 2	·019 1	·013 1	·006										
58	·083 6	·076 6	·069 5	·063 5	·056 4	·049 3	·043 3	·036 2	·029 2	·023 1	·016 1	·009 1	·003							
59	·100 7	·093 7	·086 6	·080 6	·073 5	·066 4	·060 4	·053 3	·046 3	·040 3	·033 2	·026 2	·020 1	·013 1	·006					

Continued on page 33.

B. = 29°·7.  
W. B. = 60° to 79°.  
t. - t'. = 0 to 9°·5.

# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29°·7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0·5	1·0	1·5	2·0	2·5	3·0	3·5	4·0	4·5	5·0	5·5	6·0	6·5	7·0	7·5	8·0	8·5	9·0	9·5
60	·517 100	·510 97	·504 94	·497 91	·490 88	·484 86	·477 83	·470 80	·464 78	·457 75	·450 73	·444 71	·437 68	·430 66	·424 64	·417 62	·410 60	·404 58	·397 56	·390 54
61	·536 100	·529 97	·522 94	·516 91	·509 89	·502 86	·496 83	·489 81	·482 78	·476 76	·469 73	·462 71	·456 69	·449 67	·442 65	·436 63	·429 61	·422 59	·416 57	·409 55
62	·555 100	·548 97	·542 94	·535 91	·528 89	·522 86	·515 84	·508 81	·502 79	·495 76	·488 74	·482 72	·475 69	·468 67	·462 65	·455 63	·448 61	·441 59	·435 57	·428 56
63	·575 100	·568 97	·561 94	·555 92	·548 89	·541 86	·535 84	·528 81	·521 79	·515 77	·508 74	·501 72	·495 70	·488 68	·481 66	·475 64	·468 62	·461 60	·455 58	·448 56
64	·595 100	·588 97	·582 94	·575 92	·569 89	·562 87	·555 84	·548 82	·542 79	·535 77	·528 75	·522 73	·515 70	·508 68	·502 66	·495 64	·488 62	·482 60	·475 59	·468 57
65	·616 100	·610 97	·603 94	·596 92	·590 89	·583 87	·576 84	·569 82	·563 80	·556 77	·549 75	·543 73	·536 71	·529 69	·523 67	·516 65	·509 63	·502 61	·496 59	·489 57
66	·638 100	·631 97	·625 95	·618 92	·611 89	·605 87	·598 85	·591 82	·584 80	·578 78	·571 75	·564 73	·558 71	·551 69	·544 67	·538 65	·531 63	·524 62	·518 60	·511 58
67	·660 100	·654 97	·647 95	·640 92	·634 90	·627 87	·620 85	·614 82	·607 80	·600 78	·593 76	·587 74	·580 72	·573 70	·567 68	·560 66	·553 64	·546 62	·540 60	·533 59
68	·684 100	·677 97	·670 95	·664 92	·657 90	·650 87	·643 85	·637 83	·630 80	·623 78	·616 76	·610 74	·603 72	·596 70	·590 68	·583 66	·576 64	·570 63	·563 61	·556 59
69	·707 100	·701 97	·694 95	·687 92	·680 90	·674 88	·667 85	·660 83	·654 81	·647 79	·640 76	·634 74	·627 72	·620 70	·613 68	·607 67	·600 65	·593 63	·586 61	·580 60
70	·732 100	·725 97	·719 95	·712 92	·705 90	·698 88	·692 85	·685 83	·678 81	·672 79	·665 77	·658 75	·651 73	·645 71	·638 69	·631 67	·624 65	·618 63	·611 62	·604 60
71	·757 100	·751 97	·744 95	·737 92	·730 90	·724 88	·717 86	·710 83	·704 81	·697 79	·690 77	·683 75	·676 73	·670 71	·663 69	·656 67	·650 66	·643 64	·636 62	·629 61
72	·783 100	·777 97	·770 95	·763 93	·756 90	·750 88	·743 86	·736 84	·730 81	·723 79	·716 77	·709 75	·703 73	·696 72	·689 70	·682 68	·676 66	·669 64	·662 63	·655 61
73	·810 100	·804 98	·797 95	·790 93	·783 90	·776 88	·770 86	·763 84	·756 82	·750 80	·743 78	·736 76	·729 74	·722 72	·716 70	·709 68	·702 67	·696 65	·689 63	·682 62
74	·838 100	·831 98	·824 95	·818 93	·811 90	·804 88	·797 86	·791 84	·784 82	·777 80	·770 78	·764 76	·757 74	·750 72	·743 70	·737 69	·730 67	·723 65	·716 64	·710 62
75	·866 100	·860 98	·853 95	·846 93	·839 91	·833 88	·826 86	·819 84	·812 82	·806 80	·799 78	·792 76	·785 74	·779 73	·772 71	·765 69	·758 67	·752 66	·745 64	·738 62
76	·896 100	·889 98	·882 95	·875 93	·869 91	·862 89	·855 86	·848 84	·842 82	·835 80	·828 78	·821 77	·815 75	·808 73	·801 71	·794 69	·788 68	·781 66	·774 64	·767 63
77	·926 100	·919 98	·912 95	·906 93	·899 91	·892 89	·885 87	·878 85	·872 83	·865 81	·858 79	·851 77	·845 75	·838 73	·831 71	·824 70	·818 68	·811 66	·804 65	·797 63
78	·957 100	·950 98	·943 95	·937 93	·930 91	·923 89	·916 87	·910 85	·903 83	·896 81	·889 79	·882 77	·876 75	·869 74	·862 72	·855 70	·849 68	·842 67	·835 65	·828 64
79	·989 100	·982 98	·975 95	·969 93	·962 91	·955 89	·948 87	·942 85	·935 83	·928 81	·921 79	·914 77	·908 76	·901 74	·894 72	·887 70	·880 69	·874 67	·867 66	·860 64

Continued on page 34.

# HUMIDITY TABLES—X.

B. = 29° 7.  
W. B. = 60° to 79°.  
t. — t'. = 10° 0 to 19° 5.

Absolute and Relative Humidities.

Pressure 29° 7.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
60	·384 52	·377 51	·370 49	·364 47	·357 46	·350 44	·344 42	·337 41	·330 39	·324 38	·317 37	·310 35	·304 34	·297 33	·290 31	·284 30	·277 29	·270 28	·264 27	·257 26
61	·402 53	·396 51	·389 50	·382 48	·376 46	·369 45	·362 43	·356 42	·349 40	·342 39	·336 37	·329 36	·322 35	·316 34	·309 32	·302 31	·296 30	·289 29	·282 28	·276 26
62	·421 54	·415 52	·408 50	·401 49	·395 47	·388 46	·381 44	·375 43	·368 41	·361 40	·355 38	·348 37	·341 36	·335 34	·328 33	·321 32	·315 31	·308 30	·301 29	·295 27
63	·441 54	·434 53	·428 51	·421 49	·414 48	·408 46	·401 45	·394 43	·388 42	·381 40	·374 39	·368 38	·361 36	·354 35	·348 34	·341 33	·334 32	·328 31	·321 29	·314 28
64	·462 55	·455 53	·448 52	·441 50	·435 49	·428 47	·421 46	·415 44	·408 43	·401 41	·395 40	·388 39	·381 37	·375 36	·368 35	·361 34	·354 32	·348 31	·341 30	·334 29
65	·482 56	·476 54	·469 52	·462 51	·456 49	·449 48	·442 46	·436 45	·429 43	·422 42	·416 41	·409 39	·402 38	·395 37	·389 36	·382 34	·375 33	·369 32	·362 31	·355 30
66	·504 56	·497 55	·491 53	·484 51	·477 50	·471 48	·464 47	·457 45	·450 44	·444 43	·437 41	·430 40	·424 39	·417 38	·410 36	·404 35	·397 34	·390 33	·384 32	·377 31
67	·526 57	·520 55	·513 54	·506 52	·500 51	·493 49	·486 48	·479 46	·473 45	·466 43	·459 42	·453 41	·446 40	·439 38	·432 37	·426 36	·419 35	·412 34	·406 33	·399 32
68	·549 57	·543 56	·536 54	·529 53	·522 51	·516 50	·509 48	·502 47	·496 45	·489 44	·482 43	·476 42	·469 40	·462 39	·455 38	·449 37	·442 36	·435 34	·428 33	·422 32
69	·573 58	·566 56	·560 55	·553 53	·546 52	·539 50	·533 49	·526 47	·519 46	·513 45	·506 43	·499 42	·492 41	·486 40	·479 39	·472 37	·466 36	·459 35	·452 34	·445 33
70	·598 58	·591 57	·584 55	·577 54	·571 52	·564 51	·557 49	·550 48	·544 47	·537 45	·530 44	·524 43	·517 42	·510 40	·503 39	·497 38	·490 37	·483 36	·476 35	·470 34
71	·623 59	·616 57	·609 56	·602 54	·596 53	·589 51	·582 50	·576 49	·569 47	·562 46	·555 45	·549 44	·542 42	·535 41	·528 40	·522 39	·515 38	·508 37	·502 36	·495 35
72	·649 59	·642 58	·635 56	·628 55	·622 53	·615 52	·608 51	·602 49	·595 48	·588 47	·581 45	·575 44	·568 43	·561 42	·554 41	·548 39	·541 38	·534 37	·527 36	·521 35
73	·675 60	·669 58	·662 57	·655 55	·648 54	·642 53	·635 51	·628 50	·621 49	·615 47	·608 46	·601 45	·594 44	·588 42	·581 41	·574 40	·567 39	·561 38	·554 37	·547 36
74	·703 60	·696 59	·689 57	·683 56	·676 54	·669 53	·662 52	·656 50	·649 49	·642 48	·635 47	·629 45	·622 44	·615 43	·608 42	·602 41	·595 40	·588 39	·581 38	·575 37
75	·731 61	·724 59	·718 58	·711 56	·704 55	·698 54	·691 52	·684 51	·677 50	·670 48	·664 47	·657 46	·650 45	·644 44	·637 42	·630 41	·623 40	·616 39	·610 38	·603 37
76	·760 61	·754 60	·747 58	·740 57	·733 55	·727 54	·720 53	·713 51	·706 50	·700 49	·693 48	·686 46	·679 45	·673 44	·666 43	·659 42	·652 41	·646 40	·639 39	·632 38
77	·790 62	·784 60	·777 59	·770 57	·763 56	·757 55	·750 53	·743 52	·736 51	·730 49	·723 48	·716 47	·709 46	·702 45	·696 44	·689 43	·682 41	·675 40	·669 39	·662 38
78	·822 62	·815 61	·808 59	·801 58	·794 56	·788 55	·781 54	·774 52	·767 51	·760 50	·754 49	·747 48	·740 46	·733 45	·727 44	·720 43	·713 42	·706 41	·700 40	·693 39
79	·853 63	·847 61	·840 60	·833 58	·826 57	·819 56	·813 54	·806 53	·799 52	·792 50	·786 49	·779 48	·772 47	·765 46	·758 45	·752 44	·745 43	·738 42	·731 41	·724 40

Continued on page 35.

B. = 29°.7.  
W. B. = 60° to 79°.  
t.—t'. = 20°·0 to 29°·5.

# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29°.7.

Wet bulb.	DRY BULB — WET BULB.																			
	20·0	20·5	21·0	21·5	22·0	22·5	23·0	23·5	24·0	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5
60	.250 25	.244 23	.237 22	.230 21	.224 21	.217 20	.210 19	.204 18	.197 17	.191 16	.184 15	.177 15	.171 14	.164 13	.157 12	.151 12	.144 11	.137 10	.131 10	.124 9
61	.269 25	.262 24	.256 23	.249 22	.242 22	.236 21	.229 20	.222 19	.216 18	.209 17	.202 16	.196 16	.189 15	.182 14	.176 13	.169 13	.162 12	.156 11	.149 11	.142 10
62	.288 26	.281 25	.275 24	.268 23	.261 22	.255 21	.248 21	.241 20	.234 19	.228 18	.221 17	.214 17	.208 16	.201 15	.194 14	.188 14	.181 13	.174 12	.168 12	.161 11
63	.308 27	.301 26	.294 25	.288 24	.281 23	.274 22	.268 22	.261 21	.254 20	.248 19	.241 18	.234 17	.227 17	.221 16	.214 15	.207 14	.201 14	.194 13	.187 12	.181 12
64	.328 28	.321 27	.314 26	.308 25	.301 24	.294 23	.288 22	.281 22	.274 21	.268 20	.261 19	.254 18	.248 18	.241 17	.234 16	.228 15	.221 15	.214 14	.207 13	.201 13
65	.349 29	.342 28	.335 27	.328 26	.322 25	.315 24	.308 23	.302 22	.295 22	.288 21	.282 20	.275 19	.268 18	.262 18	.255 17	.248 16	.242 16	.235 15	.228 14	.221 14
66	.370 30	.363 29	.357 28	.350 27	.343 26	.337 25	.330 24	.323 23	.316 22	.310 22	.303 21	.296 20	.290 19	.283 19	.276 18	.270 17	.263 16	.256 16	.250 15	.243 15
67	.392 31	.386 30	.379 29	.372 28	.365 27	.359 26	.352 25	.345 24	.339 23	.332 22	.325 22	.318 21	.312 20	.305 19	.298 19	.292 18	.285 17	.278 17	.272 16	.265 15
68	.415 31	.408 30	.402 29	.395 28	.388 28	.382 27	.375 26	.368 25	.361 24	.355 23	.348 22	.341 22	.335 21	.328 20	.321 20	.314 19	.308 18	.301 17	.294 17	.288 16
69	.439 32	.432 31	.425 30	.418 29	.412 28	.405 27	.398 27	.392 26	.385 25	.378 24	.372 23	.365 23	.358 22	.351 21	.345 20	.338 20	.331 19	.324 18	.318 18	.311 17
70	.463 33	.456 32	.450 31	.443 30	.436 29	.429 28	.423 27	.416 26	.409 26	.402 25	.396 24	.389 23	.382 23	.376 22	.369 21	.362 20	.356 20	.349 19	.342 18	.335 18
71	.488 34	.481 33	.475 32	.468 31	.461 30	.454 29	.448 28	.441 27	.434 26	.428 26	.421 25	.414 24	.407 23	.401 23	.394 22	.387 21	.380 20	.374 20	.367 19	.360 19
72	.514 34	.507 33	.500 32	.494 31	.487 31	.480 30	.474 29	.467 28	.460 27	.453 26	.447 25	.440 25	.433 24	.426 23	.420 23	.413 22	.406 21	.399 21	.393 20	.386 19
73	.540 35	.534 34	.527 33	.520 32	.514 31	.507 30	.500 29	.493 29	.487 28	.480 27	.473 26	.466 25	.460 25	.453 24	.446 23	.439 23	.432 22	.426 21	.419 21	.412 20
74	.568 36	.561 35	.554 34	.548 33	.541 32	.534 31	.527 30	.521 29	.514 28	.507 28	.500 27	.494 26	.487 25	.480 25	.473 24	.467 23	.460 23	.453 22	.446 21	.440 21
75	.596 36	.589 35	.583 34	.576 33	.569 33	.562 32	.556 31	.549 30	.542 29	.535 28	.529 28	.522 27	.515 26	.508 25	.502 25	.495 24	.488 23	.481 23	.475 22	.468 21
76	.625 37	.618 36	.612 35	.605 34	.598 33	.591 32	.585 31	.578 31	.571 30	.564 29	.558 28	.551 27	.544 27	.537 26	.531 25	.524 25	.517 24	.510 23	.504 23	.497 22
77	.655 37	.648 37	.642 36	.635 35	.628 34	.621 33	.614 32	.608 31	.601 30	.594 30	.587 29	.581 28	.574 27	.567 27	.560 26	.554 25	.547 25	.540 24	.533 23	.526 23
78	.686 38	.679 37	.672 36	.666 35	.659 34	.652 34	.645 33	.638 32	.632 31	.625 30	.618 29	.611 29	.605 28	.598 27	.591 27	.584 26	.578 25	.571 25	.564 24	.557 23
79	.718 39	.711 38	.704 37	.697 36	.691 35	.684 34	.677 33	.670 32	.664 32	.657 31	.650 30	.643 29	.636 29	.630 28	.623 27	.616 26	.609 26	.602 25	.596 25	.589 24

Continued on page 34.



# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29".7.

B. = 29".7.  
W. B. = 60° to 79°.  
t. — t'. = 30° 0 to 39° 5.

Wet bulb.	DRY BULB — WET BULB.																			
	30° 0	30° 5	31° 0	31° 5	32° 0	32° 5	33° 0	33° 5	34° 0	34° 5	35° 0	35° 5	36° 0	36° 5	37° 0	37° 5	38° 0	38° 5	39° 0	39° 5
60	.117 8	.111 8	.104 7	.097 7	.091 6	.084 5	.077 5	.071 4	.064 4	.057 4	.051 3	.044 3	.037 2	.031 2	.024 1	.017 1	.011 1	.004		
61	.136 9	.129 9	.122 8	.116 8	.109 7	.102 6	.096 6	.089 5	.082 5	.076 5	.069 4	.062 4	.056 3	.049 3	.042 2	.036 2	.029 2	.022 1	.016 1	.009
62	.154 10	.149 10	.141 9	.134 9	.128 8	.121 7	.114 7	.108 6	.101 6	.094 5	.088 5	.081 5	.074 4	.068 4	.061 3	.054 3	.049 2	.041 2	.034 2	.028 1
63	.174 11	.167 11	.161 10	.154 10	.147 9	.141 8	.134 8	.127 7	.121 7	.114 6	.107 6	.100 5	.094 5	.087 5	.080 4	.074 4	.067 3	.060 3	.054 3	.047 2
64	.194 12	.187 12	.181 11	.174 10	.167 10	.161 9	.154 9	.147 8	.141 8	.134 7	.127 7	.120 6	.114 6	.107 5	.100 5	.094 5	.087 4	.080 4	.074 4	.067 3
65	.215 13	.208 12	.201 12	.195 11	.188 11	.181 10	.175 10	.168 9	.161 9	.154 8	.148 8	.141 7	.134 7	.128 6	.121 6	.114 5	.108 5	.101 5	.094 4	.088 4
66	.236 14	.229 13	.223 13	.216 12	.209 12	.203 11	.196 11	.189 10	.182 10	.176 9	.169 9	.162 8	.156 8	.149 7	.142 7	.136 6	.129 6	.122 6	.116 5	.109 5
67	.258 15	.251 14	.245 14	.238 13	.231 12	.225 12	.218 11	.211 11	.204 10	.198 10	.191 9	.184 9	.178 8	.171 8	.164 8	.158 7	.151 7	.144 6	.137 6	.131 6
68	.281 16	.274 15	.268 14	.261 14	.254 13	.247 13	.241 12	.234 12	.227 11	.220 11	.214 10	.207 10	.200 9	.194 9	.187 8	.180 8	.174 8	.167 7	.160 7	.153 6
69	.304 16	.298 16	.291 15	.284 15	.277 14	.271 14	.264 13	.257 12	.251 12	.244 11	.237 11	.230 11	.224 10	.217 10	.210 9	.204 9	.197 8	.190 8	.183 8	.177 7
70	.329 17	.322 17	.315 16	.308 16	.302 15	.295 14	.288 14	.282 13	.275 13	.268 12	.261 12	.255 11	.248 11	.241 10	.234 10	.228 9	.221 9	.214 9	.208 8	.201 8
71	.353 18	.347 17	.340 17	.333 16	.326 16	.320 15	.313 14	.306 14	.300 13	.293 13	.286 12	.279 12	.273 12	.266 11	.259 11	.252 10	.246 10	.239 9	.232 9	.226 9
72	.379 19	.372 18	.366 17	.359 17	.352 16	.346 16	.339 15	.332 15	.325 14	.318 14	.312 13	.305 13	.298 12	.292 12	.285 11	.278 11	.271 10	.265 10	.258 10	.251 9
73	.406 19	.399 19	.392 18	.385 18	.379 17	.372 16	.365 16	.358 15	.352 15	.345 14	.338 14	.331 13	.325 13	.318 13	.311 12	.304 12	.298 11	.291 11	.284 10	.277 10
74	.433 20	.426 19	.419 19	.413 18	.406 18	.399 17	.392 17	.385 16	.379 16	.372 15	.365 15	.359 14	.352 14	.345 13	.338 13	.332 12	.325 12	.318 11	.311 11	.305 11
75	.461 21	.454 20	.447 20	.441 19	.434 18	.427 18	.420 17	.414 17	.407 16	.400 16	.394 15	.387 15	.380 14	.373 14	.366 13	.360 13	.353 13	.346 12	.339 12	.333 11
76	.490 21	.483 21	.476 20	.470 20	.463 19	.456 19	.449 18	.443 17	.436 17	.429 16	.422 16	.416 15	.409 15	.402 15	.395 14	.389 14	.382 13	.375 13	.368 12	.361 12
77	.520 22	.513 21	.506 21	.500 20	.493 20	.486 19	.479 19	.472 18	.466 18	.459 17	.452 17	.445 16	.438 16	.432 15	.425 15	.418 14	.412 14	.405 13	.398 13	.391 13
78	.550 23	.544 22	.537 21	.530 21	.523 20	.517 20	.510 19	.503 19	.496 18	.490 18	.483 17	.476 17	.469 16	.462 16	.456 15	.449 15	.442 14	.435 14	.428 14	.422 13
79	.582 23	.575 23	.568 22	.562 21	.555 21	.548 20	.541 20	.535 19	.528 19	.521 18	.514 18	.508 17	.501 17	.494 16	.487 16	.480 15	.474 15	.467 15	.460 14	.453 14

Continued on page 35.

B. = 29°7.  
W. B. = 80° to 89°.  
t.—t'. = 0° to 9°5.

# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29°7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
80	1.022 100	1.015 98	1.008 96	1.002 93	.995 91	.988 89	.981 87	.974 85	.968 83	.961 81	.954 79	.947 78	.940 76	.934 74	.927 72	.920 71	.913 69	.906 67	.900 66	.893 64
81	1.056 100	1.049 98	1.042 96	1.035 93	1.029 91	1.022 89	1.015 87	1.008 85	1.001 83	.995 81	.988 80	.981 78	.974 76	.968 74	.961 73	.954 71	.947 69	.940 68	.934 66	.927 65
82	1.091 100	1.084 98	1.077 96	1.070 93	1.064 91	1.057 89	1.050 87	1.043 85	1.036 84	1.030 82	1.023 80	1.016 78	1.009 76	1.002 75	.996 73	.989 71	.982 70	.975 68	.968 67	.962 65
83	1.127 100	1.120 98	1.113 96	1.106 94	1.099 91	1.093 89	1.086 88	1.079 86	1.072 84	1.065 82	1.058 80	1.052 78	1.045 77	1.038 75	1.031 73	1.024 72	1.018 70	1.011 68	1.004 67	.997 65
84	1.164 100	1.157 98	1.150 96	1.143 94	1.136 92	1.129 90	1.123 88	1.116 86	1.109 84	1.102 82	1.095 80	1.088 79	1.082 77	1.075 75	1.068 74	1.061 72	1.054 70	1.048 69	1.041 67	1.034 66
85	1.202 100	1.195 98	1.188 96	1.181 94	1.174 92	1.167 90	1.161 88	1.154 86	1.147 84	1.140 82	1.133 80	1.126 79	1.120 77	1.113 75	1.106 74	1.099 72	1.092 71	1.086 69	1.079 68	1.072 66
86	1.240 100	1.234 98	1.227 96	1.220 94	1.213 92	1.206 90	1.200 88	1.193 86	1.186 84	1.179 82	1.172 81	1.166 79	1.159 77	1.152 76	1.145 74	1.138 72	1.131 71	1.124 69	1.118 68	1.111 66
87	1.281 100	1.274 98	1.267 96	1.260 94	1.253 92	1.246 90	1.240 88	1.233 86	1.226 84	1.219 83	1.212 81	1.206 79	1.199 78	1.192 76	1.185 74	1.178 73	1.171 71	1.164 70	1.158 68	1.151 67
88	1.322 100	1.315 98	1.308 96	1.302 94	1.295 92	1.288 90	1.281 88	1.274 86	1.267 85	1.260 83	1.254 81	1.247 79	1.240 78	1.233 76	1.226 75	1.219 73	1.213 71	1.206 70	1.199 69	1.192 67
89	1.364 100	1.358 98	1.351 96	1.344 94	1.337 92	1.330 90	1.323 88	1.316 86	1.310 85	1.303 83	1.296 81	1.289 80	1.282 78	1.275 76	1.268 75	1.262 73	1.255 72	1.248 70	1.241 69	1.234 67

B = 29°7.  
W. B. = 80° to 89°.  
t.—t'. = 20°0 to 29°5.

Wet bulb.	DRY BULB — WET BULB.																			
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5
80	.750 39	.744 38	.737 37	.730 36	.723 36	.716 35	.710 34	.703 33	.696 32	.689 31	.682 31	.676 30	.669 29	.662 28	.655 28	.649 27	.642 26	.635 26	.628 25	.621 24
81	.784 40	.777 39	.770 38	.764 37	.757 36	.750 35	.743 34	.736 34	.730 33	.723 32	.716 31	.709 30	.702 29	.696 28	.689 28	.682 27	.675 26	.668 26	.662 25	.655 25
82	.819 40	.812 39	.805 38	.798 37	.791 37	.785 36	.778 35	.771 34	.764 33	.757 33	.751 32	.744 31	.737 30	.730 30	.723 29	.717 28	.710 28	.703 27	.696 26	.689 26
83	.854 41	.848 40	.841 39	.834 38	.827 37	.820 36	.813 35	.807 35	.800 34	.793 33	.786 32	.779 32	.773 31	.766 30	.759 29	.752 29	.745 28	.738 27	.732 27	.725 26
84	.891 41	.884 40	.877 39	.870 39	.864 38	.857 37	.850 36	.843 35	.836 34	.830 34	.823 33	.816 32	.809 31	.802 31	.796 30	.789 29	.782 29	.775 28	.768 27	.762 27
85	.929 42	.922 41	.915 40	.908 39	.901 38	.895 37	.888 37	.881 36	.874 35	.867 34	.860 33	.854 33	.847 32	.840 31	.833 31	.826 30	.820 29	.813 29	.806 28	.799 27
86	.968 42	.961 41	.954 40	.947 40	.940 39	.933 38	.926 37	.920 36	.913 35	.906 35	.899 34	.892 33	.886 32	.879 32	.872 31	.865 30	.858 30	.851 29	.845 28	.838 28
87	1.007 42	1.000 42	.994 41	.987 40	.980 39	.973 38	.966 37	.960 37	.953 36	.946 35	.939 34	.932 34	.925 33	.918 32	.912 32	.905 31	.898 30	.891 30	.884 29	.878 28
88	1.048 43	1.042 42	1.035 41	1.028 40	1.021 40	1.014 39	1.007 38	1.000 37	.994 36	.987 36	.980 35	.973 34	.966 33	.960 33	.953 32	.946 31	.939 31	.932 30	.925 29	.918 29
89	1.090 44	1.084 43	1.077 42	1.070 41	1.063 40	1.056 39	1.049 38	1.042 38	1.036 37	1.029 36	1.022 35	1.015 35	1.008 34	1.002 33	.995 33	.988 32	.981 31	.974 31	.967 30	.960 29

# HUMIDITY TABLES—X.

Absolute and Relative Humidities.

Pressure 29".7.

B. = 29".7.  
W. B. = 80° to 89°.  
t.—t'. = 10° to 19° 5.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
80	.886 63	.879 61	.873 60	.866 59	.859 57	.852 56	.845 55	.839 53	.832 52	.825 51	.818 50	.812 49	.805 47	.798 46	.791 45	.784 44	.778 43	.771 42	.764 41	.757 40
81	.920 63	.913 62	.906 60	.900 59	.893 58	.886 56	.879 55	.872 54	.866 53	.859 51	.852 50	.845 49	.838 48	.832 47	.825 46	.818 45	.811 44	.804 43	.798 42	.791 41
82	.955 64	.948 62	.941 61	.934 60	.928 58	.921 57	.914 56	.907 54	.900 53	.893 52	.887 51	.880 50	.873 48	.866 47	.859 46	.853 45	.846 44	.839 43	.832 42	.825 41
83	.990 64	.984 63	.977 61	.970 60	.963 59	.956 57	.950 56	.943 55	.936 54	.929 52	.922 51	.916 50	.909 49	.902 48	.895 47	.888 46	.882 45	.875 44	.868 43	.861 42
84	1·027 64	1·020 63	1·014 62	1·007 60	1·000 59	.993 58	.986 56	.980 55	.973 54	.966 53	.959 52	.952 50	.946 49	.939 48	.932 47	.925 46	.918 45	.911 44	.905 43	.898 42
85	1·065 65	1·058 63	1·051 62	1·045 61	1·038 59	1·031 58	1·024 57	1·017 56	1·010 54	1·004 53	.997 52	.990 51	.983 50	.976 49	.970 48	.963 47	.956 46	.949 45	.942 44	.936 43
86	1·104 65	1·097 64	1·090 62	1·084 61	1·077 60	1·070 58	1·063 57	1·056 56	1·049 55	1·043 54	1·036 52	1·029 51	1·022 50	1·015 49	1·008 48	1·002 47	.995 46	.988 45	.981 44	.974 43
87	1·144 65	1·137 64	1·130 63	1·124 61	1·117 60	1·110 59	1·103 58	1·096 56	1·089 55	1·082 54	1·076 53	1·069 52	1·062 51	1·055 50	1·048 49	1·042 48	1·035 46	1·028 45	1·021 44	1·014 43
88	1·185 66	1·178 64	1·172 63	1·165 62	1·158 60	1·151 59	1·144 58	1·137 57	1·130 56	1·124 54	1·117 53	1·110 52	1·103 51	1·096 50	1·089 49	1·083 48	1·076 47	1·069 46	1·062 45	1·055 44
89	1·227 66	1·221 65	1·214 63	1·207 62	1·200 61	1·193 60	1·186 58	1·180 57	1·173 56	1·166 55	1·159 54	1·152 53	1·145 51	1·138 50	1·132 49	1·125 48	1·118 47	1·111 46	1·104 45	1·097 44

B. = 29".7.  
W. B. = 80° to 89°.  
t.—t'. = 30° to 39° 5.

Wet bulb.	DRY BULB — WET BULB.																			
	30·0	30·5	31·0	31·5	32·0	32·5	33·0	33·5	34·0	34·5	35·0	35·5	36·0	36·5	37·0	37·5	38·0	38·5	39·0	39·5
80	.615 24	.608 23	.601 23	.594 22	.588 22	.581 21	.574 20	.567 20	.560 19	.554 19	.547 18	.540 18	.533 17	.526 17	.520 16	.513 16	.506 16	.499 15	.492 15	.486 14
81	.648 24	.641 24	.634 23	.628 23	.621 22	.614 22	.607 21	.600 20	.594 20	.587 19	.580 19	.573 18	.567 18	.560 18	.553 17	.546 17	.539 16	.533 16	.526 15	.519 15
82	.683 25	.676 24	.669 24	.662 23	.655 23	.649 22	.642 22	.635 21	.628 21	.621 20	.615 20	.608 19	.601 19	.594 18	.587 18	.581 17	.574 17	.567 16	.560 16	.553 15
83	.718 26	.711 25	.704 24	.698 24	.691 23	.684 23	.677 22	.670 22	.664 21	.657 21	.650 20	.643 20	.636 19	.630 19	.623 18	.616 18	.609 17	.602 17	.596 16	.589 16
84	.755 26	.748 25	.741 25	.734 24	.727 24	.721 23	.714 23	.707 22	.700 22	.693 21	.686 21	.680 20	.673 20	.666 19	.659 19	.652 18	.646 18	.639 17	.632 17	.625 17
85	.792 27	.785 26	.779 25	.772 25	.765 24	.758 24	.751 23	.744 23	.738 22	.731 22	.724 21	.717 21	.710 20	.704 20	.697 19	.690 19	.683 18	.676 18	.670 17	.663 17
86	.831 27	.824 27	.817 26	.810 25	.804 25	.797 24	.790 24	.783 23	.776 23	.770 22	.763 22	.756 21	.749 21	.742 20	.735 20	.728 19	.722 19	.715 18	.708 18	.701 18
87	.871 28	.864 27	.857 26	.850 26	.843 25	.836 25	.830 24	.823 24	.816 23	.809 23	.802 22	.796 22	.789 21	.782 21	.775 20	.768 20	.761 19	.754 19	.748 18	.741 18
88	.912 28	.905 28	.898 27	.891 26	.884 26	.877 25	.871 25	.864 24	.857 24	.850 23	.843 23	.836 22	.830 22	.823 21	.816 21	.809 20	.802 20	.795 19	.788 19	.782 19
89	.954 29	.947 28	.940 27	.933 27	.926 26	.919 26	.912 25	.906 25	.899 24	.892 24	.885 23	.878 23	.871 22	.864 22	.858 21	.851 21	.844 20	.837 20	.830 19	.823 19

# INDEX

## TO THE

### HUMIDITY TABLES—XI.

PRESSURE 27".7.

Wet bulb.	WET BULB — DRY BULB.			
	° 0 to 9.5	° 10 to 19.5	° 20 to 29.5	° 30 to 39.5
0 to 19	37			
20 to 39	38	39		
40 to 59	40	41	42	43
60 to 79	44	45	46	47
80 to 89	48	49	48	49

**ABSOLUTE HUMIDITIES** in inches of mercury at 32° F. and at sea-level at 45° latitude are given in ordinary type.

**RELATIVE HUMIDITIES** are given *in italics*.

# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure 27".7.

B. = 27".7.  
W. B. = 0° to 19°.  
t. — t' = 0° to 9°·5.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0·5	1·0	1·5	2·0	2·5	3·0	3·5	4·0	4·5	5·0	5·5	6·0	6·5	7·0	7·5	8·0	8·5	9·0	9·5
0	.045 100	.040 86	.034 73	.029 60	.024 48	.018 36	.013 25	.007 14	.002 4											
1	.047 100	.042 87	.036 74	.031 62	.026 50	.020 38	.015 28	.010 17	.004 7											
2	.049 100	.044 87	.039 75	.033 63	.028 51	.022 41	.017 30	.012 20	.006 11	.001										
3	.052 100	.046 88	.041 76	.036 65	.030 53	.025 43	.020 33	.014 23	.009 14	.003										
4	.054 100	.049 88	.043 76	.038 66	.033 55	.027 45	.022 35	.016 26	.011 17	.006 9										
5	.057 100	.051 89	.046 78	.041 67	.035 57	.030 47	.024 38	.019 29	.014 20	.008 12	.003 4									
6	.059 100	.054 89	.048 78	.043 68	.038 58	.032 49	.027 40	.022 31	.016 23	.011 15	.005 7									
7	.062 100	.057 89	.051 79	.046 69	.040 59	.035 51	.030 42	.024 34	.019 25	.014 18	.008 10	.003								
8	.065 100	.060 90	.054 80	.049 70	.043 61	.038 52	.032 44	.027 36	.022 28	.016 21	.011 13	.006 7								
9	.068 100	.063 90	.057 80	.052 71	.046 62	.041 54	.036 46	.030 38	.025 30	.019 23	.014 16	.008 10	.003 4							
10	.071 100	.066 91	.060 81	.055 72	.049 64	.044 56	.039 48	.033 40	.028 33	.022 26	.017 19	.012 13	.006 7	.001						
11	.074 100	.069 91	.063 82	.058 73	.053 65	.047 57	.042 49	.036 42	.031 35	.026 28	.020 22	.015 16	.009 10	.004						
12	.078 100	.072 91	.067 82	.061 74	.056 66	.050 58	.045 51	.040 44	.034 37	.029 31	.024 24	.018 18	.013 13	.007 7	.002 2					
13	.081 100	.076 91	.070 83	.065 75	.059 67	.054 60	.049 53	.043 46	.038 39	.032 33	.027 27	.022 21	.016 15	.011 10	.005 5					
14	.085 100	.079 92	.074 84	.068 76	.063 68	.058 61	.052 54	.047 48	.041 41	.036 35	.030 29	.025 23	.020 18	.014 13	.009 8	.003				
15	.088 100	.083 92	.078 84	.072 77	.067 69	.061 62	.056 56	.050 49	.045 43	.040 37	.034 31	.029 26	.023 20	.018 15	.012 10	.007 6	.002 1			
16	.092 100	.087 92	.082 84	.076 77	.071 70	.065 64	.060 57	.054 51	.049 45	.044 39	.038 33	.033 28	.027 23	.022 18	.016 13	.011 9	.006 4	.001		
17	.096 100	.091 92	.086 85	.080 78	.075 71	.069 65	.064 58	.058 52	.053 46	.048 41	.042 35	.037 30	.031 25	.026 20	.020 16	.015 11	.010 7	.004		
18	.101 100	.095 93	.090 85	.084 79	.079 72	.074 66	.068 60	.063 54	.057 48	.052 43	.046 37	.041 32	.035 27	.030 23	.024 18	.019 14	.014 10	.008 6	.003 2	
19	.105 100	.100 93	.094 86	.089 79	.083 73	.078 67	.072 61	.067 55	.062 49	.056 44	.051 39	.045 34	.040 29	.034 25	.029 21	.023 16	.018 12	.012 8	.007 5	.002

Continued on page 38.

B. = 27°-7.  
W. B. = 20° to 39°.  
t. - t' = 0° to 9°-5.

# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure 27"-7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
20	.110 100	.104 93	.099 86	.098 80	.088 74	.082 68	.077 62	.072 56	.066 51	.061 46	.055 41	.050 36	.044 31	.039 27	.033 23	.028 19	.022 15	.017 11	.012 7	.006 4
21	.114 100	.109 93	.104 87	.098 81	.093 74	.087 69	.082 63	.076 58	.071 52	.065 47	.060 43	.054 38	.049 33	.044 29	.038 25	.033 21	.027 17	.022 13	.016 10	.011 6
22	.119 100	.114 94	.108 87	.103 81	.098 75	.092 70	.087 64	.081 59	.076 54	.070 49	.065 44	.059 40	.054 35	.048 31	.043 27	.037 23	.032 19	.026 16	.021 12	.016 9
23	.124 100	.119 94	.114 88	.108 82	.102 76	.097 70	.092 65	.086 60	.081 55	.075 50	.070 46	.064 41	.059 37	.053 33	.048 29	.042 25	.037 21	.032 18	.026 15	.021 11
24	.130 100	.124 94	.119 88	.113 82	.108 77	.102 71	.097 66	.091 61	.086 56	.080 52	.075 47	.070 43	.064 39	.059 35	.053 31	.048 27	.042 23	.037 20	.031 17	.026 14
25	.135 100	.130 94	.124 88	.119 83	.113 77	.108 72	.102 67	.097 62	.091 57	.086 53	.080 48	.075 44	.070 40	.064 36	.059 33	.053 29	.048 25	.042 22	.037 19	.031 16
26	.141 100	.135 94	.130 88	.124 83	.119 78	.114 73	.108 68	.103 63	.097 58	.092 54	.086 50	.081 46	.075 42	.070 38	.064 34	.059 31	.053 27	.048 24	.042 21	.037 18
27	.147 100	.141 94	.136 89	.131 84	.125 78	.120 74	.114 69	.108 64	.103 60	.098 55	.092 51	.087 47	.081 43	.076 40	.070 36	.065 33	.059 29	.054 26	.048 23	.043 20
28	.153 100	.148 95	.142 89	.137 84	.131 79	.126 74	.120 70	.115 65	.109 61	.104 57	.098 52	.093 49	.087 45	.082 41	.076 38	.071 34	.065 31	.060 28	.054 25	.049 22
29	.159 100	.154 95	.148 89	.143 84	.137 80	.132 75	.126 70	.121 66	.116 62	.110 58	.104 54	.099 50	.094 46	.088 43	.083 39	.077 36	.072 33	.066 30	.061 27	.055 24
30	.166 100	.160 95	.155 90	.150 85	.144 80	.138 76	.133 71	.128 67	.122 63	.117 59	.111 55	.106 51	.100 48	.095 44	.089 41	.084 37	.078 34	.073 31	.067 28	.062 26
31	.173 100	.167 95	.162 90	.156 85	.151 81	.145 76	.140 72	.134 68	.129 64	.123 60	.118 56	.112 52	.107 49	.101 45	.096 42	.090 39	.085 36	.079 33	.074 30	.068 27
32	.180 100	.174 95	.168 90	.163 85	.157 81	.151 76	.145 72	.140 68	.134 63	.128 60	.122 56	.116 52	.111 48	.105 45	.099 42	.093 39	.088 35	.082 33	.076 30	.070 27
33	.187 100	.181 95	.175 90	.169 85	.163 81	.157 76	.151 72	.145 68	.139 63	.133 60	.127 56	.120 52	.114 48	.108 45	.102 42	.096 39	.090 35	.084 33	.078 30	.072 27
34	.195 100	.189 95	.183 90	.177 85	.170 81	.164 77	.158 72	.152 68	.146 64	.140 60	.134 57	.128 53	.122 49	.116 46	.110 43	.104 40	.098 37	.092 34	.086 31	.080 28
35	.203 100	.197 95	.191 90	.184 86	.178 81	.172 77	.166 73	.160 69	.154 65	.148 61	.142 58	.136 54	.130 51	.124 47	.118 44	.112 41	.106 38	.100 35	.093 33	.087 30
36	.211 100	.205 95	.199 91	.193 86	.187 82	.180 78	.174 74	.168 70	.162 66	.156 62	.150 59	.144 55	.138 52	.132 49	.126 45	.120 42	.114 40	.108 37	.102 34	.095 32
37	.219 100	.213 95	.207 91	.201 86	.195 82	.189 78	.183 74	.177 70	.171 67	.165 63	.158 60	.152 56	.146 53	.140 50	.134 47	.128 44	.122 41	.116 38	.110 35	.104 33
38	.228 100	.222 96	.216 91	.210 87	.204 83	.198 79	.192 75	.186 71	.179 67	.173 64	.167 60	.161 57	.155 54	.149 51	.143 48	.137 45	.131 42	.125 39	.118 37	.112 34
39	.237 100	.231 96	.225 91	.219 87	.213 83	.207 79	.200 75	.194 72	.188 68	.182 65	.176 61	.170 58	.164 55	.158 52	.152 49	.146 46	.140 43	.134 41	.127 38	.121 36

Continued on page 40.

# HUMIDITY TABLES—XI.

B. = 27°·7.  
W. B = 20° to 39°.  
t. — t' = 10°·0 to 19°·5

Absolute and Relative Humidities.  
Pressure 27"·7.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
20	·001																			
21	·005 3																			
22	·010 6	·005																		
23	·015 8	·010 5	·004 2																	
24	·020 10	·015 7	·009 5	·004																
25	·026 13	·020 10	·015 7	·009 4	·004 2															
26	·031 15	·026 12	·020 9	·015 7	·010 4	·004														
27	·037 17	·032 14	·026 12	·021 9	·015 6	·010 4	·004 2													
28	·043 19	·038 16	·032 14	·027 11	·021 9	·016 6	·010 4	·005												
29	·050 21	·044 18	·039 16	·033 13	·028 11	·022 9	·017 6	·011 4	·006 2											
30	·056 23	·051 20	·045 18	·040 15	·034 13	·029 11	·023 8	·018 6	·012 4	·007 2	·001									
31	·063 25	·057 22	·052 19	·046 17	·041 14	·035 12	·030 10	·024 8	·019 6	·013 4	·008 2	·002								
32	·064 24	·059 22	·053 19	·047 17	·041 14	·036 12	·030 10	·024 8	·018 6	·012 4	·007 2									
33	·066 25	·060 22	·054 19	·048 16	·042 14	·036 12	·030 10	·024 7	·018 5	·012 3	·005 2									
34	·074 26	·067 23	·061 21	·055 18	·049 16	·043 14	·037 12	·031 9	·025 7	·019 6	·013 4	·007 3	·001 2							
35	·081 27	·075 25	·069 22	·063 20	·057 18	·051 16	·045 13	·039 11	·033 9	·027 8	·021 6	·014 4	·008 2	·002						
36	·089 29	·083 26	·077 24	·071 22	·065 19	·059 17	·053 15	·047 13	·041 11	·035 9	·029 8	·022 6	·016 4	·010 3	·004 1					
37	·098 30	·092 28	·086 26	·079 23	·073 21	·067 19	·061 17	·055 15	·049 13	·043 11	·037 9	·031 8	·025 6	·019 5	·012 3	·006 2	1			
38	·106 32	·100 29	·094 27	·088 25	·082 23	·076 21	·070 19	·064 17	·058 15	·052 13	·046 11	·039 10	·033 8	·027 6	·021 5	·015 3	·009 2	·003		
39	·115 33	·109 31	·103 29	·097 26	·091 24	·085 22	·079 20	·073 18	·066 17	·060 15	·054 13	·048 11	·042 10	·036 8	·030 7	·024 5	·018 4	·012 2	·006 1	

Continued on page 41.

B. = 27°-7.  
W. B. = 40° to 59°.  
t. - t'. = 0° to 9°-5.

# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure 27"-7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
40	248 100	240 96	234 91	228 87	222 83	216 80	210 76	204 72	198 69	192 65	186 62	179 59	173 56	167 53	161 50	155 47	149 45	143 42	137 39	131 37
41	258 100	250 96	244 92	238 88	232 84	226 80	220 76	214 73	207 69	201 66	195 63	189 60	183 57	177 54	171 51	165 48	158 46	152 43	146 41	140 38
42	268 100	260 96	254 92	248 88	242 84	236 81	230 77	223 73	217 70	211 67	205 64	199 61	193 58	187 55	181 52	174 49	168 47	162 44	156 42	150 40
43	277 100	270 96	264 92	258 88	252 84	246 81	240 77	234 74	228 71	222 68	215 64	209 61	203 59	197 56	191 53	185 50	179 48	173 46	166 43	160 41
44	287 100	281 96	275 92	269 88	263 85	257 81	251 78	244 75	238 71	232 68	226 65	220 62	214 59	208 57	202 54	196 51	189 49	183 46	177 44	171 42
45	298 100	292 96	286 92	280 89	274 85	268 82	262 78	256 75	249 72	243 69	237 66	231 63	225 60	219 58	213 55	207 52	200 50	194 47	188 45	182 43
46	310 100	304 96	298 92	292 89	285 85	279 82	273 79	267 76	261 72	255 69	249 67	242 64	236 61	230 58	224 56	218 53	212 51	206 48	200 46	193 44
47	322 100	316 96	310 93	303 89	297 86	291 82	285 79	279 76	273 73	266 70	260 67	254 64	248 62	242 59	236 57	230 54	224 52	217 49	211 47	205 45
48	334 100	328 96	322 93	316 89	310 86	303 83	297 80	291 77	285 74	279 71	273 68	266 65	260 62	254 60	248 57	242 55	236 53	230 50	224 48	217 46
49	347 100	341 96	334 93	328 90	322 86	316 83	310 80	304 77	298 74	291 72	285 68	279 66	273 63	267 61	261 58	254 56	248 53	242 51	236 49	230 47
50	360 100	354 97	348 93	341 90	335 87	329 83	323 80	317 77	311 75	304 72	298 69	292 66	286 64	280 61	274 59	268 57	261 54	255 52	249 50	243 48
51	373 100	367 97	361 93	355 90	349 87	343 84	336 81	330 78	324 75	318 72	312 70	306 67	300 64	293 62	287 60	281 57	275 55	269 53	262 51	256 49
52	387 100	381 97	375 93	369 90	363 87	357 84	350 81	344 78	338 75	332 73	326 70	320 68	313 65	307 63	301 60	295 58	289 56	283 54	276 52	270 50
53	402 100	396 97	390 93	383 90	377 87	371 84	365 81	359 79	352 76	346 73	340 71	334 68	328 66	322 63	315 61	309 59	303 57	297 54	291 52	284 50
54	417 100	411 97	404 94	398 91	392 87	386 85	380 82	374 79	367 76	361 74	355 71	349 69	343 66	336 64	330 62	324 59	318 57	312 55	306 53	299 51
55	432 100	426 97	420 94	414 91	408 88	401 85	395 82	389 79	383 77	376 74	370 72	364 69	358 67	352 65	346 62	339 60	333 58	327 56	321 54	315 52
56	448 100	442 97	436 94	430 91	423 88	417 85	411 82	405 80	399 77	392 75	386 72	380 70	374 67	368 65	361 63	355 61	349 59	343 57	337 55	330 53
57	464 100	458 97	452 94	446 91	440 88	434 85	427 83	421 80	415 77	409 75	402 73	396 70	390 68	384 66	378 63	372 61	365 59	359 57	353 55	347 53
58	482 100	475 97	469 94	463 91	457 88	450 86	444 83	438 80	432 78	426 75	420 73	413 71	407 68	401 66	395 64	388 62	382 60	376 58	370 56	364 54
59	499 100	493 97	487 94	480 91	474 89	468 86	462 83	456 81	449 78	443 76	437 73	431 71	424 69	418 67	412 65	406 63	400 61	394 59	387 57	381 55

Continued on page 44.



# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure 27".7.

B. = 27".7.  
W. B. = 40° to 59°.  
t.—t'. = 10°·0 to 19°·5.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
40	.124 35	.118 32	.112 30	.106 28	.100 26	.094 24	.088 22	.082 20	.076 18	.070 16	.064 15	.057 13	.051 11	.045 10	.039 8	.033 7	.027 6	.021 4	.015 3	.009 2
41	.134 36	.128 34	.122 31	.116 29	.110 27	.104 25	.098 23	.091 22	.085 20	.079 18	.073 16	.067 15	.061 13	.055 12	.049 10	.042 9	.036 7	.030 6	.024 5	.018 3
42	.144 37	.138 35	.132 33	.126 31	.120 29	.113 27	.107 25	.101 23	.095 21	.089 20	.083 18	.077 16	.071 15	.064 13	.058 12	.052 10	.046 9	.040 8	.034 6	.028 5
43	.154 38	.148 36	.142 34	.136 32	.130 30	.124 28	.118 26	.112 24	.105 23	.099 21	.093 19	.087 18	.081 16	.075 15	.069 13	.062 12	.056 11	.050 9	.044 8	.038 7
44	.165 40	.159 37	.153 35	.146 33	.140 31	.134 29	.128 28	.122 26	.116 24	.110 22	.104 21	.098 19	.091 18	.085 16	.079 15	.073 13	.067 12	.061 11	.055 9	.049 8
45	.176 41	.170 39	.164 36	.158 35	.151 33	.145 31	.139 29	.133 27	.127 25	.121 24	.115 22	.108 21	.102 19	.096 18	.090 16	.084 15	.078 14	.072 12	.066 11	.059 10
46	.187 42	.181 40	.175 38	.169 36	.163 34	.157 32	.150 30	.144 28	.138 27	.132 25	.126 23	.120 22	.114 20	.108 19	.101 18	.095 16	.089 15	.083 14	.077 12	.071 11
47	.199 43	.193 41	.187 39	.181 37	.174 35	.168 33	.162 31	.156 30	.150 28	.144 26	.138 25	.132 23	.125 22	.119 20	.113 19	.107 18	.101 16	.095 15	.088 14	.082 13
48	.211 44	.205 42	.199 40	.193 38	.187 36	.180 34	.174 33	.168 31	.162 29	.156 28	.150 26	.144 25	.138 23	.131 22	.125 20	.119 19	.113 18	.107 16	.101 15	.094 14
49	.224 45	.218 43	.211 41	.205 39	.199 37	.193 35	.187 34	.181 32	.174 30	.168 29	.162 27	.156 26	.150 24	.144 23	.138 22	.132 20	.125 19	.119 18	.113 17	.107 15
50	.237 46	.230 44	.224 42	.218 40	.212 38	.206 36	.200 35	.194 33	.187 31	.181 30	.175 28	.169 27	.163 26	.157 24	.150 23	.144 21	.138 20	.132 19	.126 18	.120 17
51	.250 47	.244 45	.238 43	.232 41	.226 39	.219 37	.213 36	.207 34	.201 33	.195 31	.188 30	.182 28	.176 27	.170 25	.164 24	.158 23	.152 21	.145 20	.139 19	.133 18
52	.264 48	.258 46	.252 44	.246 42	.239 40	.233 38	.227 37	.221 35	.215 34	.209 32	.202 31	.196 29	.190 28	.184 26	.178 25	.172 24	.165 23	.159 21	.153 20	.147 19
53	.278 48	.272 47	.266 45	.260 43	.254 41	.248 39	.241 38	.235 36	.229 35	.223 33	.217 32	.210 30	.204 29	.198 28	.192 26	.186 25	.180 24	.173 23	.167 21	.161 20
54	.293 49	.287 47	.281 46	.275 44	.268 42	.262 40	.256 39	.250 37	.244 36	.238 34	.232 33	.225 31	.219 30	.213 29	.207 27	.201 26	.194 25	.188 24	.182 22	.176 21
55	.308 50	.302 48	.296 46	.290 45	.284 43	.278 41	.271 40	.265 38	.259 37	.253 35	.247 34	.240 32	.234 31	.228 30	.222 28	.216 27	.210 26	.203 25	.197 24	.191 22
56	.324 51	.318 49	.312 47	.306 45	.300 44	.293 42	.287 41	.281 39	.275 38	.269 36	.262 35	.256 33	.250 32	.244 31	.238 29	.231 28	.225 27	.219 26	.213 25	.207 23
57	.341 52	.334 50	.328 48	.322 46	.316 45	.310 43	.303 41	.297 40	.291 38	.285 37	.279 36	.272 34	.266 33	.260 32	.254 30	.248 29	.241 28	.235 27	.229 26	.223 24
58	.358 52	.351 51	.345 49	.339 47	.333 45	.326 44	.320 42	.314 41	.308 39	.302 38	.295 36	.289 35	.283 34	.277 32	.271 31	.264 30	.258 29	.252 28	.246 27	.240 25
59	.375 53	.369 51	.362 50	.356 48	.350 46	.344 45	.338 43	.331 42	.325 40	.319 39	.313 37	.307 36	.300 35	.294 33	.288 32	.282 31	.276 30	.269 29	.263 27	.257 26

Continued on page 45.

$t = 27^{\circ}\text{F.}$   
 $V. B. = 40^{\circ} \text{ to } 59^{\circ}.$   
 $t' = 20^{\circ}\text{C. to } 29^{\circ}\text{C.}$

# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure  $27^{\circ}\text{F.}$

Wet bulb.	DRY BULB — WET BULB.																			
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5
40	.002																			
41	.012 2	.006																		
42	.022 4	.016 3	.010 2	.003																
43	.032 6	.026 4	.020 3	.014 2	.008 1	.001														
44	.042 7	.036 6	.030 5	.024 4	.018 3	.012 2	.006 1													
45	.058 9	.047 7	.041 6	.035 5	.029 4	.023 3	.017 2	.010 1	.004 1											
46	.065 10	.058 9	.052 8	.046 7	.040 6	.034 5	.028 4	.022 3	.016 2	.009 1	.003									
47	.076 12	.070 10	.064 9	.058 8	.052 7	.046 6	.039 5	.033 4	.027 4	.021 3	.015 2	.009 1	.003							
48	.088 13	.082 12	.076 11	.070 10	.064 9	.058 8	.052 7	.045 6	.039 5	.033 4	.027 3	.021 3	.015 2	.008 1	.002					
49	.101 14	.095 13	.088 12	.082 11	.076 10	.070 9	.064 8	.058 7	.052 6	.045 6	.039 5	.033 4	.027 3	.021 2	.015 2	.008 1	.002			
50	.114 16	.107 14	.101 13	.095 12	.089 11	.083 10	.077 9	.070 9	.064 8	.058 7	.052 6	.046 5	.040 4	.034 4	.027 3	.021 2	.015 2	.009 1	.003	
51	.127 17	.121 16	.115 15	.108 14	.102 13	.096 12	.090 11	.084 10	.078 9	.072 8	.065 7	.059 6	.053 6	.047 5	.041 4	.034 4	.028 3	.022 2	.016 2	.010 1
52	.141 18	.135 17	.128 16	.122 15	.116 14	.110 13	.104 12	.098 11	.091 10	.085 9	.079 9	.073 8	.067 7	.060 6	.054 5	.048 5	.042 4	.036 3	.030 3	.024 2
53	.155 19	.149 18	.143 17	.136 16	.130 15	.124 14	.118 13	.112 12	.106 11	.099 11	.093 10	.087 9	.081 8	.075 7	.068 7	.062 6	.056 5	.050 5	.044 4	.038 3
54	.170 20	.164 19	.157 18	.151 17	.145 16	.139 15	.133 14	.126 13	.120 13	.114 12	.108 11	.102 10	.096 9	.089 9	.083 8	.077 7	.071 6	.065 6	.058 5	.052 5
55	.185 21	.179 20	.172 19	.166 18	.160 17	.154 16	.148 15	.142 15	.135 14	.129 13	.123 12	.117 11	.111 10	.104 10	.098 9	.092 8	.086 8	.080 7	.074 6	.067 6
56	.200 22	.194 21	.188 20	.182 19	.176 18	.170 17	.163 17	.157 16	.151 15	.145 14	.139 13	.132 12	.126 12	.120 11	.114 10	.108 9	.102 9	.095 8	.089 7	.083 7
57	.217 23	.210 22	.204 21	.198 20	.192 19	.186 18	.179 18	.173 17	.167 16	.161 15	.155 14	.148 13	.142 13	.136 12	.130 11	.124 10	.118 10	.111 9	.105 8	.099 8
58	.233 24	.227 23	.221 22	.215 21	.209 20	.202 19	.197 19	.190 18	.184 17	.178 16	.171 15	.165 14	.159 14	.153 13	.147 12	.140 11	.134 11	.128 10	.122 10	.116 9
59	.251 25	.244 24	.238 23	.232 22	.226 21	.220 20	.213 20	.207 19	.201 18	.195 17	.189 16	.182 15	.176 15	.170 14	.164 13	.158 12	.151 12	.145 11	.139 11	.133 10

Continued on page 46.

# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure 27".7.

B. = 27".7.  
W. B. = 40° to 59°.  
t.—t'. = 30° 0 to 39° 5.

Wet bulb.	DRY BULB — WET BULB.																			
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5
40																				
41																				
42																				
43																				
44																				
45																				
46																				
47																				
48																				
49																				
50																				
51	.004																			
52	.017 2	.011 1	.005																	
53	.032 3	.025 2	.019 2	.013 1	.007 1	.001														
54	.046 4	.040 3	.034 3	.028 2	.021 2	.015 1	.009 1	.003												
55	.061 5	.055 4	.049 4	.043 3	.036 3	.030 2	.024 2	.018 1	.012 1	.006										
56	.077 6	.070 6	.064 5	.058 4	.052 4	.046 3	.040 3	.033 2	.027 2	.021 1	.015 1	.009 1	.002							
57	.093 7	.086 7	.080 6	.074 6	.068 5	.062 4	.056 4	.049 3	.043 3	.037 2	.031 2	.024 2	.018 1	.012 1	.006					
58	.110 8	.103 8	.097 7	.091 7	.085 6	.078 5	.072 5	.066 4	.060 4	.054 4	.047 3	.041 3	.035 2	.029 2	.023 1	.016 1	.010 1	.004		
59	.126 9	.120 9	.114 8	.108 8	.102 7	.096 6	.089 6	.083 5	.077 5	.071 4	.064 4	.058 4	.052 3	.046 3	.040 2	.033 2	.027 2	.021 1	.015 1	.009

Continued on page 47.

B. = 27° 7.  
W. B. = 60° to 79°.  
t. — t' = 0° to 9° 5.

# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure 27" 7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
60	.517 100	.511 97	.505 94	.498 91	.492 89	.486 86	.480 83	.474 81	.467 79	.461 76	.455 74	.449 72	.442 69	.436 67	.430 65	.424 63	.418 61	.411 59	.405 57	.399 55
61	.536 100	.530 97	.523 94	.517 92	.511 89	.505 86	.498 84	.492 81	.486 79	.480 76	.474 74	.467 72	.461 70	.455 68	.449 66	.442 64	.436 62	.430 60	.424 58	.418 56
62	.555 100	.549 97	.542 94	.536 92	.530 89	.524 86	.518 84	.511 82	.505 79	.499 77	.493 75	.486 72	.480 70	.474 68	.468 66	.462 64	.455 62	.449 60	.443 58	.437 57
63	.575 100	.569 97	.562 94	.556 92	.550 89	.544 87	.537 84	.531 82	.525 79	.519 77	.512 75	.506 73	.500 71	.494 69	.488 67	.481 65	.475 63	.469 61	.463 59	.456 57
64	.595 100	.589 97	.583 95	.576 92	.570 89	.564 87	.558 84	.552 82	.545 80	.539 78	.533 75	.527 73	.520 71	.514 69	.508 67	.502 65	.495 63	.489 61	.483 60	.477 58
65	.616 100	.610 97	.604 95	.598 92	.591 90	.585 87	.579 85	.573 82	.566 80	.560 78	.554 76	.548 74	.541 71	.535 69	.529 67	.523 66	.516 64	.510 62	.504 60	.498 58
66	.638 100	.632 97	.626 95	.619 92	.613 90	.607 87	.601 85	.594 83	.588 80	.582 78	.576 76	.569 74	.563 72	.557 70	.551 68	.544 66	.538 64	.532 62	.526 61	.519 59
67	.660 100	.654 97	.648 95	.642 92	.636 90	.629 87	.623 85	.617 83	.610 81	.604 78	.598 76	.592 74	.586 72	.579 70	.573 68	.567 67	.560 65	.554 63	.548 61	.542 59
68	.684 100	.677 97	.671 95	.665 92	.659 90	.652 88	.646 85	.640 83	.634 81	.627 79	.621 77	.615 75	.608 73	.602 71	.596 69	.590 67	.583 65	.577 63	.571 62	.565 60
69	.707 100	.701 97	.695 95	.689 92	.682 90	.676 88	.670 85	.664 83	.657 81	.651 79	.645 77	.638 75	.632 73	.626 71	.620 69	.613 67	.607 66	.601 64	.595 62	.588 60
70	.732 100	.726 97	.720 95	.713 93	.707 90	.701 88	.694 86	.688 84	.682 81	.676 79	.669 77	.663 75	.657 73	.650 71	.644 70	.638 68	.632 66	.625 64	.619 63	.613 61
71	.757 100	.751 98	.745 95	.738 93	.732 90	.726 88	.720 86	.713 84	.707 82	.701 80	.694 78	.688 76	.682 74	.676 72	.669 70	.663 68	.657 66	.651 65	.644 63	.638 61
72	.783 100	.777 98	.771 95	.764 93	.758 90	.752 88	.746 86	.739 84	.733 82	.727 80	.721 78	.714 76	.708 74	.702 72	.695 70	.689 69	.683 67	.677 65	.670 63	.664 62
73	.810 100	.804 98	.798 95	.791 93	.785 91	.779 88	.772 86	.766 84	.760 82	.754 80	.747 78	.741 76	.735 74	.728 72	.722 71	.716 69	.710 67	.703 66	.697 64	.691 62
74	.838 100	.832 98	.825 95	.819 93	.813 91	.806 89	.800 86	.794 84	.788 82	.782 80	.775 78	.769 76	.762 75	.756 73	.750 71	.743 69	.737 68	.731 66	.725 64	.718 63
75	.866 100	.860 98	.854 95	.848 93	.841 91	.835 89	.829 87	.822 85	.816 83	.810 81	.803 79	.797 77	.791 75	.784 73	.778 71	.772 70	.766 68	.759 66	.753 65	.747 63
76	.896 100	.889 98	.883 95	.877 93	.870 91	.864 89	.858 87	.852 85	.845 83	.839 81	.833 79	.826 77	.820 75	.814 73	.807 72	.801 70	.795 68	.788 67	.782 65	.776 64
77	.926 100	.920 98	.913 95	.907 93	.901 91	.894 89	.888 87	.882 85	.875 83	.869 81	.863 79	.856 77	.850 75	.844 74	.838 72	.831 70	.825 69	.819 67	.812 65	.806 64
78	.957 100	.951 98	.944 95	.938 93	.932 91	.925 89	.919 87	.913 85	.906 83	.900 81	.894 79	.888 78	.881 76	.875 74	.868 72	.862 71	.856 69	.850 67	.843 66	.837 64
79	.989 100	.983 98	.976 96	.970 93	.964 91	.957 89	.951 87	.945 85	.938 83	.932 81	.926 80	.919 78	.913 76	.907 74	.900 73	.894 71	.888 69	.882 68	.875 66	.869 65

Continued on page 48.

# HUMIDITY TABLES—XI.

B. = 27° 7.  
W. B. = 60° to 79°.  
t. — t'. = 10° 0 to 19° 5.

Absolute and Relative Humidities.

Pressure 27° 7.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
60	·893 54	·886 52	·880 50	·874 49	·868 47	·862 45	·855 44	·849 42	·843 41	·837 40	·831 38	·824 37	·818 36	·812 34	·806 33	·800 32	·293 31	·287 29	·281 28	·275 27
61	·411 54	·405 53	·399 51	·393 49	·386 48	·380 46	·374 45	·368 43	·362 42	·355 40	·349 39	·343 38	·337 36	·330 35	·324 34	·318 33	·312 32	·306 30	·299 29	·293 28
62	·480 55	·424 53	·418 52	·412 50	·406 48	·399 47	·393 45	·387 44	·381 42	·374 41	·368 40	·362 38	·356 37	·350 36	·343 35	·337 34	·331 32	·325 31	·318 30	·312 29
63	·450 56	·444 54	·438 52	·432 51	·425 49	·419 48	·413 46	·407 45	·400 43	·394 42	·388 41	·382 39	·375 38	·369 37	·363 36	·357 34	·350 33	·344 32	·338 31	·332 30
64	·470 56	·464 55	·458 53	·452 51	·446 50	·439 48	·433 47	·427 45	·421 44	·414 43	·408 41	·402 40	·396 39	·389 37	·383 36	·377 35	·371 34	·364 33	·358 32	·352 31
65	·492 57	·485 55	·479 53	·473 52	·466 50	·460 49	·454 47	·448 46	·442 45	·435 43	·429 42	·423 41	·417 39	·410 38	·404 37	·398 36	·392 35	·385 34	·379 33	·373 32
66	·513 57	·507 56	·501 54	·494 53	·488 51	·482 50	·476 48	·469 47	·463 45	·457 44	·451 43	·444 41	·438 40	·432 39	·426 38	·419 37	·413 36	·407 34	·401 33	·394 32
67	·535 58	·529 56	·523 55	·517 53	·510 52	·504 50	·498 49	·492 47	·485 46	·479 45	·473 43	·467 42	·460 41	·454 40	·448 38	·442 37	·435 36	·429 35	·423 34	·417 33
68	·558 58	·552 57	·546 55	·540 54	·533 52	·527 51	·521 49	·515 48	·508 47	·502 45	·496 44	·490 43	·483 42	·477 40	·471 39	·464 38	·458 37	·452 36	·446 35	·440 34
69	·582 59	·576 57	·570 56	·563 54	·557 53	·551 51	·544 50	·538 49	·532 47	·526 46	·519 45	·513 43	·507 42	·501 41	·494 40	·488 39	·482 38	·476 37	·469 35	·463 34
70	·607 59	·600 58	·594 56	·588 55	·582 53	·575 51	·569 50	·563 49	·556 48	·550 47	·544 45	·538 44	·531 43	·525 42	·519 41	·512 39	·506 38	·500 37	·494 36	·487 35
71	·632 60	·626 58	·619 57	·613 55	·607 54	·600 52	·594 51	·588 50	·582 48	·575 47	·569 46	·562 45	·556 43	·550 42	·544 41	·538 40	·531 39	·525 38	·519 37	·512 36
72	·658 60	·651 59	·645 57	·639 56	·633 54	·626 53	·620 52	·614 50	·607 49	·601 48	·595 46	·589 45	·582 44	·576 43	·570 42	·564 41	·557 39	·551 38	·545 37	·538 36
73	·684 61	·678 59	·672 58	·666 56	·659 55	·653 53	·647 52	·640 51	·634 50	·628 48	·622 47	·616 46	·609 45	·603 43	·596 42	·590 41	·584 40	·578 39	·571 38	·565 37
74	·712 61	·706 60	·699 58	·693 57	·687 55	·680 54	·674 53	·668 51	·662 50	·655 49	·649 48	·643 46	·636 45	·630 44	·624 43	·618 42	·611 41	·605 40	·599 39	·592 38
75	·740 62	·734 60	·728 59	·722 57	·715 56	·709 54	·702 53	·696 52	·690 51	·684 49	·677 48	·671 47	·665 46	·658 45	·652 43	·646 42	·640 41	·633 40	·627 39	·621 38
76	·770 62	·763 61	·757 59	·751 58	·744 56	·738 55	·732 54	·725 52	·719 51	·713 50	·706 49	·700 47	·694 46	·688 45	·681 44	·675 43	·669 42	·662 41	·656 40	·650 39
77	·800 62	·793 61	·787 60	·781 58	·774 57	·768 55	·762 54	·755 53	·749 52	·743 50	·736 49	·730 48	·724 47	·718 46	·711 45	·705 43	·699 42	·692 41	·686 40	·680 39
78	·831 63	·824 61	·818 60	·812 59	·805 57	·799 56	·793 55	·786 53	·780 52	·774 51	·767 50	·761 48	·755 47	·748 46	·742 45	·736 44	·730 43	·723 42	·717 41	·710 40
7	·862 63	·856 62	·850 60	·844 59	·837 58	·831 56	·824 55	·818 54	·812 53	·806 51	·799 50	·793 49	·787 48	·780 47	·774 46	·768 45	·761 44	·755 43	·749 42	·742 41

Continued on page 49.

B. = 27° 7.  
W. B. = 50° to 79°.  
t. - t. = 20° 0 to 29° 5.

# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure 27° 7.

Wet bulb.	DRY BULB — WET BULB.																			
	20° 0	20° 5	21° 0	21° 5	22° 0	22° 5	23° 0	23° 5	24° 0	24° 5	25° 0	25° 5	26° 0	26° 5	27° 0	27° 5	28° 0	28° 5	29° 0	29° 5
60	268 26	262 25	256 24	250 23	244 22	237 21	231 21	225 20	219 19	212 18	206 17	200 16	194 16	188 15	181 14	175 13	169 13	163 12	157 11	150 11
61	287 27	281 26	274 25	268 24	262 23	256 22	250 21	243 21	237 20	231 19	225 18	218 17	212 17	206 16	200 15	194 14	187 14	181 13	175 12	169 12
62	306 28	300 27	294 26	287 25	281 24	275 23	269 22	262 21	256 21	250 20	244 19	238 18	231 17	225 17	219 16	213 15	206 15	200 14	194 13	188 13
63	326 29	319 28	313 27	307 26	301 25	294 24	288 23	282 22	276 22	270 21	263 20	257 19	251 18	245 18	238 17	232 16	226 16	220 15	214 14	207 14
64	346 30	340 29	333 28	327 27	321 26	315 25	308 24	302 23	296 22	290 22	283 21	277 20	271 19	265 18	258 18	252 17	246 16	240 16	234 15	227 14
65	367 31	360 29	354 29	348 28	342 27	335 26	329 25	323 24	317 23	310 22	304 22	298 21	292 20	286 19	279 19	273 18	267 17	260 17	254 16	248 16
66	388 31	382 30	376 29	369 28	363 27	357 26	351 25	344 24	338 24	332 23	326 22	320 22	313 21	307 20	301 19	294 19	288 18	282 17	276 17	270 16
67	410 32	404 31	398 30	392 29	385 28	379 27	373 26	367 25	360 24	354 24	348 23	342 22	335 22	329 21	323 20	316 20	310 19	304 18	298 18	292 17
68	433 33	427 32	421 31	414 30	408 29	402 28	396 27	389 26	383 25	377 25	371 24	364 23	358 22	352 22	346 21	339 20	333 20	327 19	320 18	314 18
69	457 33	450 32	444 32	438 31	432 30	425 29	419 28	413 27	407 26	400 25	394 25	388 24	382 23	375 22	369 22	363 21	356 20	350 20	344 19	338 18
70	481 34	475 33	469 32	462 31	456 30	450 30	444 29	437 28	431 27	425 26	418 25	412 25	406 24	400 23	393 22	387 22	381 21	374 20	368 20	362 19
71	506 35	500 34	494 34	487 33	481 32	475 31	468 29	462 29	456 28	450 27	443 26	437 25	431 25	425 24	418 23	412 22	406 22	400 21	393 21	387 20
72	532 35	526 34	520 34	513 33	507 32	501 31	494 30	488 29	482 28	476 28	469 27	463 26	457 25	450 25	444 24	438 23	432 23	425 22	419 21	413 21
73	559 36	552 35	546 34	540 33	533 32	527 32	521 31	515 30	508 29	502 28	496 27	489 27	483 26	477 25	470 25	464 24	458 23	452 23	445 22	439 21
74	586 37	580 36	573 35	567 34	561 33	554 32	548 31	542 30	536 30	529 29	523 28	517 27	510 27	504 26	498 25	492 25	485 24	479 23	473 23	466 22
75	614 37	608 36	602 35	595 35	589 34	583 33	576 32	570 31	564 30	558 30	551 29	545 28	539 27	532 27	526 26	520 25	514 24	507 24	501 23	495 23
76	643 38	637 37	631 36	624 35	618 34	612 33	606 33	599 32	593 31	587 30	580 29	574 29	568 28	561 27	555 26	549 26	542 25	536 24	530 24	524 23
77	673 38	667 37	661 37	654 36	648 35	642 34	636 33	629 32	623 32	616 31	610 30	604 29	598 29	591 28	585 27	579 26	572 26	566 25	560 24	553 24
78	704 39	698 38	692 37	685 36	679 35	673 35	666 34	660 33	654 32	647 31	641 31	635 30	628 29	622 28	616 28	609 27	603 26	597 26	590 25	584 24
79	736 40	730 39	723 38	717 37	711 36	704 35	698 34	692 33	685 33	679 32	673 31	666 30	660 30	654 29	647 28	641 28	634 27	628 26	622 26	616 25

Continued on page 48.

# HUMIDITY TABLES—XI.

B. = 27°·7.  
W. B. = 60° to 79°.  
t.—t'. = 30°·0 to 39°·5.

Absolute and Relative Humidities.  
Pressure 27"·7.

Wet bulb.	DRY BULB — WET BULB.																		
	30·0	30·5	31·0	31·5	32·0	32·5	33·0	33·5	34·0	34·5	35·0	35·5	36·0	36·5	37·0	37·5	38·0	38·5	39·0
60	·144 10	·138 10	·132 9	·126 9	·119 8	·113 7	·107 7	·101 6	·094 6	·088 5	·082 5	·076 5	·070 4	·063 4	·057 3	·051 3	·045 2	·038 2	·032 2
61	·163 11	·156 11	·150 10	·144 9	·138 9	·132 8	·125 8	·119 7	·113 7	·107 6	·100 6	·094 5	·088 5	·082 5	·076 4	·069 4	·063 3	·057 3	·051 3
62	·182 12	·175 11	·169 11	·163 10	·157 10	·150 9	·144 9	·138 8	·132 8	·125 7	·119 7	·113 6	·107 6	·100 5	·094 5	·088 5	·082 4	·076 4	·069 4
63	·201 13	·195 12	·188 12	·182 11	·176 11	·170 10	·164 10	·157 9	·151 9	·145 8	·139 8	·132 7	·126 7	·120 6	·114 6	·108 5	·101 5	·095 5	·089 4
64	·221 14	·215 13	·209 13	·202 12	·196 12	·190 11	·184 10	·177 10	·171 9	·165 9	·159 9	·152 8	·146 8	·140 7	·134 7	·128 6	·121 6	·115 6	·109 5
65	·242 15	·236 14	·229 14	·223 13	·217 12	·211 12	·204 11	·198 11	·192 10	·186 10	·179 9	·173 9	·167 8	·161 8	·154 8	·148 7	·142 7	·136 6	·129 6
66	·263 16	·257 15	·251 14	·244 14	·238 13	·232 13	·226 12	·220 12	·213 11	·207 11	·201 10	·194 10	·188 9	·182 9	·176 8	·170 8	·163 8	·157 7	·151 7
67	·285 16	·279 16	·273 15	·266 15	·260 14	·254 13	·248 13	·242 12	·235 12	·229 11	·223 11	·216 10	·210 10	·204 10	·198 9	·191 9	·185 8	·179 8	·173 8
68	·308 17	·302 16	·296 16	·289 15	·283 15	·277 14	·270 14	·264 13	·258 13	·252 12	·245 12	·239 11	·233 11	·227 10	·220 10	·214 9	·208 9	·202 9	·195 8
69	·331 18	·325 17	·319 17	·313 16	·306 16	·300 15	·294 14	·288 14	·281 13	·275 13	·269 12	·262 12	·256 12	·250 11	·244 11	·237 10	·231 10	·225 9	·219 9
70	·356 19	·349 18	·343 17	·337 17	·331 16	·324 16	·318 15	·312 15	·306 14	·299 14	·293 13	·287 13	·280 12	·274 12	·268 11	·262 11	·255 11	·249 10	·243 10
71	·381 19	·374 19	·368 18	·362 18	·356 17	·349 16	·343 16	·337 15	·330 15	·324 14	·318 14	·312 13	·305 13	·299 12	·293 12	·286 12	·280 11	·274 11	·268 10
72	·406 20	·400 19	·394 19	·388 18	·381 18	·375 17	·369 17	·362 16	·356 16	·350 15	·344 15	·337 14	·331 14	·325 13	·318 13	·312 12	·306 12	·300 11	·293 11
73	·433 21	·426 20	·420 19	·414 19	·408 18	·401 18	·395 17	·389 17	·382 16	·376 16	·370 15	·364 15	·357 14	·351 14	·345 13	·338 13	·332 13	·326 12	·320 12
74	·460 21	·454 21	·448 20	·441 20	·435 19	·429 18	·422 18	·416 17	·410 17	·403 16	·397 16	·391 15	·384 15	·378 14	·372 14	·366 14	·359 13	·353 13	·347 12
75	·488 22	·482 21	·476 21	·469 20	·463 20	·457 19	·450 19	·444 18	·438 17	·432 17	·425 17	·419 16	·413 16	·406 15	·400 15	·394 14	·387 14	·381 13	·375 13
76	·517 23	·511 22	·505 21	·498 21	·492 20	·486 20	·479 19	·473 19	·467 18	·460 18	·454 17	·448 17	·442 16	·435 16	·429 15	·423 15	·416 14	·410 14	·404 14
77	·547 23	·541 23	·534 22	·528 21	·522 21	·516 20	·509 20	·503 19	·496 19	·490 18	·484 18	·478 17	·471 17	·465 16	·459 16	·452 15	·446 15	·440 15	·433 14
78	·578 24	·572 23	·565 23	·559 22	·552 21	·546 21	·540 20	·534 20	·527 19	·521 19	·515 18	·508 18	·502 17	·496 17	·489 16	·483 16	·477 16	·470 15	·464 15
79	·609 24	·603 24	·597 23	·590 23	·584 22	·578 21	·572 21	·565 20	·559 20	·552 19	·546 19	·540 18	·534 18	·527 17	·521 17	·515 17	·508 16	·502 16	·496 15

Continued on page 49.

B. = 27°7.  
W. B. = 80° to 89°.  
t. — t' = 0° to 9°5.

# HUMIDITY TABLES—XI.

Absolute and Relative Humidities.

Pressure 27°7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
80	1.022 100	1.016 98	1.009 96	1.003 93	.997 91	.990 89	.984 87	.978 85	.971 83	.965 82	.959 80	.952 78	.946 76	.940 75	.933 73	.927 71	.921 70	.914 68	.908 67	.902 65
81	1.056 100	1.050 98	1.043 96	1.037 93	1.030 91	1.024 89	1.018 87	1.011 86	1.005 84	.999 82	.992 80	.986 78	.980 77	.973 75	.967 73	.961 72	.954 70	.948 68	.942 67	.935 65
82	1.091 100	1.084 98	1.078 96	1.072 94	1.065 92	1.059 90	1.053 88	1.046 86	1.040 84	1.034 82	1.027 80	1.021 78	1.015 77	1.008 75	1.002 73	.996 72	.989 70	.983 69	.976 67	.970 66
83	1.127 100	1.120 98	1.114 96	1.108 94	1.101 92	1.095 90	1.088 88	1.082 86	1.076 84	1.069 82	1.063 80	1.057 79	1.050 77	1.044 75	1.038 74	1.031 72	1.025 71	1.019 69	1.012 68	1.006 66
84	1.164 100	1.157 98	1.151 96	1.144 94	1.138 92	1.132 90	1.125 88	1.119 86	1.113 84	1.106 82	1.100 81	1.094 79	1.087 77	1.081 76	1.074 74	1.068 72	1.062 71	1.055 69	1.049 68	1.043 66
85	1.202 100	1.195 98	1.189 96	1.182 94	1.176 92	1.170 90	1.163 88	1.157 86	1.151 84	1.144 83	1.138 81	1.132 79	1.125 77	1.119 76	1.112 74	1.106 73	1.100 71	1.093 70	1.087 68	1.081 67
86	1.241 100	1.234 98	1.228 96	1.222 94	1.215 92	1.209 90	1.202 88	1.196 86	1.190 84	1.183 83	1.177 81	1.171 79	1.164 78	1.158 76	1.151 74	1.145 73	1.139 71	1.132 70	1.126 68	1.120 67
87	1.281 100	1.274 98	1.268 96	1.262 94	1.255 92	1.249 90	1.242 88	1.236 86	1.230 85	1.223 83	1.217 81	1.211 80	1.204 78	1.198 76	1.192 75	1.185 73	1.179 72	1.172 70	1.166 69	1.160 67
88	1.322 100	1.316 98	1.309 96	1.303 94	1.296 92	1.290 90	1.284 88	1.277 87	1.271 85	1.265 83	1.258 81	1.252 80	1.245 78	1.239 76	1.233 75	1.226 73	1.220 72	1.214 70	1.207 69	1.201 68
89	1.364 100	1.358 98	1.352 96	1.345 94	1.339 92	1.332 90	1.326 88	1.320 87	1.313 85	1.307 83	1.300 82	1.294 80	1.288 78	1.281 77	1.275 75	1.269 74	1.262 72	1.256 71	1.250 69	1.243 68

B. = 27°7.  
W. B. = 80° to 89°.  
t. — t' = 20°0 to 29°5.

Wet bulb.	DRY BULB — WET BULB.																			
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5
80	.769 40	.762 39	.756 38	.750 37	.743 37	.737 36	.731 35	.724 34	.718 33	.712 32	.705 32	.699 30	.693 29	.686 29	.680 29	.674 28	.667 27	.661 27	.655 26	.648 26
81	.802 41	.796 40	.790 39	.783 38	.777 37	.771 36	.764 35	.758 35	.752 34	.745 33	.739 32	.733 31	.726 31	.720 30	.714 29	.707 29	.701 28	.694 27	.688 27	.682 26
82	.837 41	.831 40	.824 39	.818 38	.812 38	.805 37	.799 36	.792 35	.786 34	.780 34	.774 33	.767 32	.761 31	.754 31	.748 30	.742 29	.735 29	.729 28	.723 27	.716 27
83	.873 42	.866 41	.860 40	.854 39	.847 38	.841 37	.834 36	.828 36	.822 35	.815 34	.809 33	.803 33	.796 32	.790 31	.784 30	.777 30	.771 29	.765 28	.758 28	.752 27
84	.909 42	.903 41	.896 40	.890 39	.884 38	.878 38	.871 37	.865 36	.858 35	.852 35	.846 34	.839 33	.833 32	.827 32	.820 31	.814 30	.808 30	.801 29	.795 28	.788 28
85	.947 43	.941 42	.934 41	.928 40	.922 39	.915 38	.909 37	.902 37	.896 36	.890 35	.883 34	.877 34	.871 33	.864 32	.858 31	.852 31	.845 30	.839 29	.832 29	.826 28
86	.986 43	.980 42	.973 41	.967 40	.960 40	.954 39	.948 38	.941 37	.935 36	.929 36	.922 35	.916 34	.910 33	.903 33	.897 32	.890 31	.884 31	.878 30	.871 29	.865 29
87	1.026 43	1.019 43	1.013 42	1.007 41	1.000 40	.994 39	.988 38	.981 38	.975 37	.968 36	.962 35	.956 34	.949 34	.943 33	.936 32	.930 32	.924 31	.917 30	.911 30	.905 29
88	1.067 44	1.060 43	1.054 42	1.048 41	1.041 40	1.035 40	1.028 39	1.022 38	1.016 37	1.009 36	1.003 36	.997 35	.990 34	.984 34	.978 33	.971 32	.965 32	.958 31	.952 30	.946 30
89	1.109 44	1.103 43	1.096 43	1.090 42	1.083 41	1.077 40	1.071 39	1.064 38	1.058 38	1.052 37	1.045 36	1.039 35	1.032 35	1.026 34	1.020 33	1.013 33	1.007 32	1.000 31	.994 31	.988 30



# HUMIDITY TABLES—XI.

B. = 27°·7.  
W. B. = 80° to 89°.  
t.—t'. = 10°·0 to 19°·5.

Absolute and Relative Humidities.

Pressure 27"·7.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
80	.895 64	.889 62	.883 61	.876 59	.870 58	.864 57	.857 55	.851 54	.845 53	.838 52	.832 51	.826 49	.819 48	.813 47	.807 46	.800 45	.794 44	.788 43	.781 42	.775 41
81	.929 64	.923 63	.916 61	.910 60	.904 58	.897 57	.891 56	.885 55	.878 53	.872 52	.866 51	.859 50	.853 49	.847 48	.840 47	.834 46	.828 45	.821 44	.815 43	.809 42
82	.964 64	.958 63	.951 61	.945 60	.938 59	.932 58	.926 56	.919 55	.913 54	.907 53	.900 51	.894 50	.888 49	.881 48	.875 47	.869 46	.862 45	.856 44	.850 43	.843 42
83	1·000 65	.993 63	.987 62	.981 61	.974 59	.968 58	.962 57	.955 55	.949 54	.942 53	.936 52	.930 51	.923 50	.917 49	.911 48	.904 47	.898 45	.892 44	.885 43	.879 42
84	1·036 65	1·030 64	1·024 62	1·017 61	1·011 60	1·005 58	.998 57	.992 56	.986 55	.979 53	.973 52	.966 51	.960 50	.954 49	.947 48	.941 47	.935 46	.928 45	.922 44	.916 43
85	1·074 65	1·068 64	1·062 63	1·055 61	1·049 60	1·042 59	1·036 57	1·030 56	1·023 55	1·017 54	1·011 53	1·004 52	.998 51	.992 49	.985 48	.979 47	.972 46	.966 45	.960 44	.953 43
86	1·113 66	1·107 64	1·100 63	1·094 62	1·088 60	1·081 59	1·075 58	1·069 57	1·062 55	1·056 54	1·050 53	1·043 52	1·037 51	1·030 50	1·024 49	1·018 48	1·011 47	1·005 46	.999 45	.992 44
87	1·153 66	1·147 65	1·140 63	1·134 62	1·128 61	1·121 59	1·115 58	1·109 57	1·102 56	1·096 55	1·090 54	1·083 52	1·077 51	1·070 50	1·064 49	1·058 48	1·051 47	1·045 46	1·038 45	1·032 44
88	1·194 66	1·188 65	1·182 64	1·175 62	1·169 61	1·162 60	1·156 59	1·150 57	1·143 56	1·137 55	1·131 54	1·124 53	1·118 52	1·112 51	1·105 50	1·099 49	1·092 48	1·086 47	1·080 46	1·073 45
89	1·237 67	1·230 65	1·224 64	1·218 63	1·211 61	1·205 60	1·198 59	1·192 58	1·186 57	1·179 55	1·173 54	1·166 53	1·160 52	1·154 51	1·147 50	1·141 49	1·134 48	1·128 47	1·122 46	1·115 45

B. = 27°·7.  
W. B. = 80° to 89°.  
t.—t'. = 30°·0 to 39°·5.

Wet bulb.	DRY BULB — WET BULB.																			
	30·0	30·5	31·0	31·5	32·0	32·5	33·0	33·5	34·0	34·5	35·0	35·5	36·0	36·5	37·0	37·5	38·0	38·5	39·0	39·5
80	.642 25	.636 24	.629 24	.623 23	.617 23	.610 22	.604 21	.598 21	.591 20	.585 20	.579 19	.572 19	.566 18	.560 18	.553 18	.547 17	.541 17	.534 16	.528 16	.522 15
81	.676 25	.669 25	.663 24	.656 24	.650 23	.644 23	.638 22	.631 22	.625 21	.618 20	.612 20	.606 19	.600 19	.593 19	.587 18	.580 18	.574 17	.568 17	.561 16	.555 16
82	.710 26	.704 25	.697 25	.691 24	.685 24	.678 23	.672 23	.666 22	.659 22	.653 21	.647 21	.640 20	.634 20	.628 19	.621 19	.615 18	.609 18	.602 17	.596 17	.590 16
83	.746 27	.739 26	.733 25	.727 25	.720 24	.714 24	.708 23	.701 23	.695 22	.688 22	.682 21	.676 21	.669 20	.663 20	.657 19	.650 19	.644 18	.638 18	.631 17	.625 17
84	.782 27	.776 26	.769 26	.763 25	.757 25	.750 24	.744 24	.738 23	.731 23	.725 22	.719 22	.712 21	.706 21	.700 20	.693 20	.687 19	.680 19	.674 18	.668 18	.661 17
85	.820 28	.813 27	.807 26	.801 26	.794 25	.788 25	.782 24	.775 24	.769 23	.762 23	.756 22	.750 22	.743 21	.737 21	.731 20	.724 20	.718 19	.712 19	.705 18	.699 18
86	.858 28	.852 27	.846 27	.839 26	.833 26	.827 25	.820 25	.814 24	.808 24	.801 23	.795 23	.788 22	.782 22	.776 21	.769 21	.763 20	.757 20	.750 19	.744 19	.738 18
87	.898 29	.892 28	.886 27	.879 27	.873 26	.866 26	.860 25	.854 25	.847 24	.841 24	.834 23	.828 23	.822 22	.815 22	.809 21	.803 21	.796 20	.790 20	.784 19	.777 19
88	.939 29	.933 28	.926 28	.920 27	.914 27	.907 26	.901 26	.894 25	.888 25	.882 24	.875 24	.869 23	.863 23	.856 22	.850 22	.844 21	.837 21	.831 20	.824 20	.818 19
89	.981 29	.975 29	.968 28	.962 28	.956 27	.949 27	.943 26	.936 26	.930 25	.924 24	.917 24	.911 23	.905 23	.898 23	.892 22	.885 22	.879 21	.873 21	.866 20	.860 20

# INDEX

## TO THE

### HUMIDITY TABLES—XII.

PRESSURE 25"·8.

Wet bulb.	WET BULB — DRY BULB.			
	° 0 to 9·5	° 10 to 19·5	° 20 to 29·5	° 30 to 39·5
0 to 19	51			
20 to 39	52	53		
40 to 59	54	55	56	57
60 to 79	58	59	60	61
80 to 89	62	63	62	63

**ABSOLUTE HUMIDITIES** in inches of mercury at 32° F. and at sea-level at 45° latitude are given in ordinary type.

**RELATIVE HUMIDITIES** are given in *italics*.

# HUMIDITY TABLES—XII.

B. 25°-8.  
W. B.=0 to 19°.  
r.—t'.=0 to 9°-5.

Absolute and Relative Humidities.

Pressure 25°-8.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
0	.045 100	.040 87	.035 74	.030 62	.025 51	.020 40	.015 29	.010 19	.005 9											
1	.047 100	.042 88	.037 75	.032 64	.027 52	.022 42	.017 32	.012 22	.007 13	.002										
2	.049 100	.044 88	.039 76	.034 65	.029 54	.024 44	.019 34	.014 25	.009 16	.004										
3	.052 100	.047 89	.042 77	.037 66	.032 56	.027 46	.022 37	.017 28	.012 19	.007 11	.002									
4	.054 100	.049 89	.044 78	.039 68	.034 57	.029 48	.024 39	.019 30	.014 22	.009 14	.004									
5	.057 100	.052 89	.047 79	.042 69	.037 59	.032 50	.027 41	.022 33	.017 24	.012 17	.007 9	.002								
6	.059 100	.054 90	.049 80	.044 70	.039 60	.034 52	.029 43	.024 35	.019 27	.014 20	.009 12	.004								
7	.062 100	.057 90	.052 80	.047 71	.042 62	.037 53	.032 45	.027 37	.022 29	.017 22	.012 15	.007 9	.002							
8	.065 100	.060 90	.055 81	.050 72	.045 63	.040 55	.035 47	.030 39	.025 32	.020 25	.015 18	.010 12	.005 5							
9	.068 100	.063 91	.058 81	.053 73	.048 64	.043 56	.038 49	.033 41	.028 34	.023 27	.018 21	.013 15	.008 8	.002						
10	.071 100	.066 91	.061 82	.056 74	.051 66	.046 58	.041 50	.036 43	.031 36	.026 30	.021 23	.016 17	.011 11	.006 6	.001					
11	.074 100	.069 91	.064 83	.059 75	.054 67	.049 59	.044 52	.039 45	.034 38	.029 32	.024 26	.019 20	.014 14	.009 9	.004 4					
12	.078 100	.073 92	.068 83	.062 75	.057 68	.052 61	.047 53	.042 47	.037 40	.032 34	.027 28	.022 23	.017 17	.012 12	.007 7	.002				
13	.081 100	.076 92	.071 84	.066 76	.061 69	.056 62	.051 55	.046 49	.041 42	.036 36	.031 30	.026 25	.020 20	.016 15	.010 10	.005 5				
14	.085 100	.080 92	.075 84	.070 77	.064 70	.059 63	.054 56	.049 50	.044 44	.039 38	.034 33	.029 27	.024 22	.019 17	.014 12	.009 8	.004 3			
15	.088 100	.083 92	.078 85	.073 78	.068 71	.063 64	.058 58	.053 52	.048 46	.043 40	.038 35	.033 29	.028 24	.023 20	.018 15	.013 10	.008 6	.003		
16	.092 100	.087 93	.082 85	.077 78	.072 72	.067 65	.062 59	.057 53	.052 47	.047 42	.042 37	.037 32	.032 27	.027 22	.022 17	.016 13	.012 9	.006 5	.001 1	
17	.096 100	.091 93	.086 86	.081 79	.076 72	.071 66	.066 60	.061 55	.056 49	.051 44	.046 38	.041 34	.036 29	.031 24	.026 20	.021 16	.016 11	.010 8	.005 4	
18	.101 100	.096 93	.091 86	.086 80	.080 73	.075 67	.070 61	.065 56	.060 50	.055 45	.050 40	.045 35	.040 31	.035 26	.030 22	.025 18	.020 14	.015 10	.010 6	.004
19	.105 100	.100 93	.095 87	.090 80	.085 74	.080 68	.075 63	.070 57	.064 52	.060 47	.054 42	.049 37	.044 33	.039 28	.034 24	.029 20	.024 16	.019 13	.014 9	.009 6

Continued on page 52.

B. = 25° 8.  
W. B. = 20° to 39°.  
t. - t'. = 0° to 9° 5.

# HUMIDITY TABLES—XII.

Absolute and Relative Humidities.  
Pressure 25" 8.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
20	.110 100	.105 93	.100 87	.094 81	.089 75	.084 69	.079 64	.074 58	.069 53	.064 48	.059 44	.054 39	.049 35	.044 30	.039 26	.034 22	.028 19	.023 15	.018 11	.013 8
21	.114 100	.109 94	.104 87	.099 81	.094 76	.089 70	.084 65	.079 60	.074 55	.069 50	.064 45	.058 41	.053 36	.048 32	.043 28	.038 25	.033 21	.028 17	.023 14	.018 11
22	.119 100	.114 94	.109 88	.104 82	.099 76	.094 71	.089 66	.084 61	.079 56	.074 51	.068 47	.063 42	.058 38	.053 34	.048 30	.043 27	.038 23	.033 19	.028 16	.023 13
23	.124 100	.119 94	.114 88	.109 82	.104 77	.099 72	.094 67	.089 62	.084 57	.079 52	.074 48	.068 44	.063 40	.058 36	.053 32	.048 28	.043 25	.038 22	.033 18	.028 15
24	.130 100	.125 94	.120 88	.114 83	.109 78	.104 72	.099 67	.094 63	.089 58	.084 54	.079 49	.074 45	.069 41	.064 38	.058 34	.053 30	.048 27	.043 24	.038 20	.033 17
25	.135 100	.130 94	.125 89	.120 83	.115 78	.110 73	.105 68	.100 64	.094 59	.089 55	.084 51	.079 47	.074 43	.069 39	.064 35	.059 32	.054 29	.049 25	.044 22	.038 19
26	.141 100	.136 94	.131 89	.126 84	.120 79	.115 74	.110 69	.105 65	.100 60	.095 56	.090 52	.085 48	.080 44	.075 41	.070 37	.064 34	.059 30	.054 27	.049 24	.044 21
27	.147 100	.142 95	.137 89	.132 84	.126 79	.121 75	.116 70	.111 66	.106 61	.101 57	.096 53	.091 49	.086 46	.080 42	.075 39	.070 35	.065 32	.060 29	.055 26	.050 23
28	.153 100	.148 95	.143 90	.138 85	.133 80	.128 75	.122 71	.117 67	.112 62	.107 58	.102 54	.097 51	.092 47	.087 44	.082 40	.076 37	.071 34	.066 31	.061 28	.056 25
29	.159 100	.154 95	.149 90	.144 85	.139 80	.134 76	.129 72	.124 67	.119 63	.113 59	.108 56	.103 52	.098 48	.093 45	.088 42	.083 38	.078 35	.072 32	.067 30	.062 27
30	.166 100	.161 95	.156 90	.151 86	.146 81	.140 77	.135 72	.130 68	.125 64	.120 60	.115 57	.110 53	.105 50	.100 46	.094 43	.089 40	.084 37	.079 34	.074 31	.069 28
31	.173 100	.168 95	.163 90	.157 86	.152 81	.147 77	.142 73	.137 69	.132 65	.127 61	.122 57	.116 54	.111 51	.106 47	.101 44	.096 41	.091 38	.086 35	.081 32	.076 30
32	.180 100	.175 95	.169 90	.164 86	.158 81	.153 77	.148 73	.142 69	.137 65	.132 61	.127 58	.121 54	.115 51	.110 47	.105 44	.099 41	.094 38	.088 35	.083 32	.078 30
33	.187 100	.182 95	.176 90	.170 86	.165 81	.159 77	.153 73	.148 69	.142 65	.136 61	.131 57	.125 54	.120 50	.114 47	.108 44	.102 41	.097 38	.091 35	.086 32	.080 30
34	.195 100	.189 95	.184 91	.178 86	.172 82	.167 78	.161 73	.155 69	.150 66	.144 62	.138 58	.133 55	.127 51	.121 48	.116 45	.110 42	.104 39	.099 36	.093 34	.087 31
35	.203 100	.197 95	.191 91	.186 86	.180 82	.174 78	.169 74	.163 70	.158 66	.152 63	.146 59	.140 56	.135 53	.129 49	.124 46	.118 43	.112 41	.107 38	.101 35	.095 33
36	.211 100	.205 95	.200 91	.194 87	.188 83	.183 79	.177 75	.171 71	.166 67	.160 64	.154 60	.149 57	.143 54	.137 51	.132 48	.126 45	.120 42	.115 39	.109 37	.103 34
37	.219 100	.214 96	.208 91	.202 87	.197 83	.191 79	.185 75	.180 72	.174 68	.168 64	.163 61	.157 58	.151 55	.146 52	.140 49	.134 46	.129 43	.123 40	.117 38	.112 35
38	.228 100	.222 96	.217 91	.211 87	.205 83	.200 80	.194 76	.188 72	.183 69	.177 65	.171 62	.166 59	.160 56	.154 53	.149 50	.143 47	.137 44	.132 42	.126 39	.120 37
39	.237 100	.231 96	.226 92	.220 88	.214 84	.209 80	.203 76	.197 73	.192 69	.186 66	.180 63	.175 60	.169 57	.163 54	.158 51	.152 48	.146 45	.141 43	.135 40	.129 38

Continued on page 54.

# HUMIDITY TABLES—XII.

Absolute and Relative Humidities.

Pressure 25".8.

B. = 25°.8.  
W. B. = 20° to 39°.  
t. — t' = 10°.0 to 19°.5.

Wet bulb.	DRY BULB — WET BULB.																			
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5
20	.008 5	.008																		
21	.018 7	.008 4	.008 1																	
22	.018 10	.012 7	.008 4	.002																
23	.028 12	.018 9	.012 6	.007 4	.002 1															
24	.028 14	.028 11	.018 9	.018 6	.008 4	.002														
25	.038 16	.028 14	.028 11	.018 8	.018 6	.008 4	.008 1													
26	.038 18	.034 16	.029 13	.024 11	.018 8	.018 6	.008 3	.008												
27	.048 20	.040 18	.035 15	.030 13	.024 10	.019 8	.014 6	.009 4	.004 2											
28	.051 22	.046 20	.041 17	.036 15	.030 12	.025 10	.020 8	.015 6	.010 4	.005 2										
29	.057 24	.052 22	.047 19	.042 17	.037 14	.032 12	.026 10	.021 8	.016 6	.011 4	.006 2	.001								
30	.064 26	.058 23	.053 21	.048 18	.043 16	.038 14	.033 12	.028 9	.023 6	.018 6	.012 4	.007 2	.002 1							
31	.070 27	.065 25	.060 2	.055 0	.050 18	.045 16	.040 13	.034 12	.029 9	.024 6	.019 6	.014 4	.009 3	.004						
32	.072 27	.067 25	.062 22	.056 20	.051 18	.045 16	.040 13	.035 11	.029 9	.024 7	.018 6	.013 4	.008 2	.002						
33	.074 27	.069 25	.063 22	.057 20	.052 18	.046 16	.040 13	.035 11	.029 9	.024 8	.018 6	.012 4	.007 2	.001						
34	.082 28	.076 26	.070 24	.065 21	.059 19	.054 17	.048 15	.042 13	.037 11	.031 9	.025 7	.020 6	.014 4	.008 2	.003 1					
35	.090 30	.084 28	.078 25	.073 23	.067 21	.061 19	.056 17	.050 15	.044 13	.039 11	.033 9	.027 7	.022 6	.016 4	.010 3	.005				
36	.098 32	.092 29	.086 27	.081 25	.075 22	.069 20	.064 18	.058 16	.052 15	.047 13	.041 11	.035 9	.030 8	.024 6	.018 5	.013 3	.007 2	.002		
37	.106 33	.100 31	.095 28	.089 26	.083 24	.078 22	.072 20	.066 18	.061 16	.055 15	.049 13	.044 11	.038 9	.032 8	.027 6	.021 5	.015 4	.010 2	.004 1	
38	.115 34	.109 32	.103 30	.098 28	.092 26	.086 24	.081 22	.075 20	.069 18	.064 16	.058 14	.052 13	.047 11	.041 10	.035 8	.030 7	.024 5	.018 4	.013 3	.007 1
39	.124 36	.118 33	.112 31	.106 29	.101 27	.095 25	.090 23	.084 21	.078 19	.072 18	.067 16	.061 14	.055 13	.050 11	.044 10	.038 8	.033 7	.027 6	.021 4	.016 3

Continued on page 55.

B. = 25°.8.  
W. B. = 40° to 59°.  
t. - t' = 0° to 9° 5.

# HUMIDITY TABLES—XII.

Absolute and Relative Humidities.

Pressure 25°.8.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
40	.246 100	.241 96	.235 92	.230 88	.224 84	.218 80	.212 77	.207 73	.201 70	.195 67	.190 64	.184 61	.178 58	.173 55	.167 52	.161 49	.156 47	.150 44	.144 42	.139 39
41	.256 100	.250 96	.245 92	.239 88	.234 84	.228 81	.222 77	.216 74	.211 71	.205 67	.199 64	.194 61	.188 58	.182 56	.177 53	.171 50	.165 48	.160 45	.154 43	.148 40
42	.266 100	.260 96	.255 92	.249 88	.243 85	.238 81	.232 78	.226 74	.221 71	.215 68	.209 65	.204 62	.198 59	.192 56	.186 54	.181 51	.175 49	.170 46	.164 44	.158 42
43	.277 100	.271 96	.265 92	.260 89	.254 85	.248 82	.242 78	.237 75	.231 72	.225 69	.220 66	.214 63	.208 60	.203 57	.197 55	.191 52	.186 50	.180 47	.174 45	.168 43
44	.287 100	.282 96	.276 92	.270 89	.264 85	.259 82	.253 79	.247 76	.242 72	.236 69	.230 66	.225 64	.219 61	.213 58	.208 56	.202 53	.196 51	.190 48	.185 46	.179 44
45	.298 100	.293 96	.287 93	.281 89	.276 86	.270 82	.264 79	.258 76	.253 73	.247 70	.241 67	.236 64	.230 62	.224 59	.218 56	.213 54	.207 52	.201 49	.196 47	.190 45
46	.310 100	.304 96	.298 93	.293 89	.287 86	.281 83	.276 79	.270 76	.264 73	.258 71	.253 68	.247 65	.241 62	.236 60	.230 57	.224 55	.218 52	.213 50	.207 48	.201 46
47	.322 100	.316 96	.310 93	.305 90	.299 86	.293 83	.288 80	.282 77	.276 74	.270 71	.265 68	.260 66	.253 63	.248 60	.242 58	.236 56	.230 53	.225 51	.219 49	.213 47
48	.334 100	.328 97	.323 93	.317 90	.311 86	.306 83	.300 80	.294 77	.288 74	.283 72	.277 69	.271 66	.265 64	.260 61	.254 59	.248 56	.242 54	.237 52	.231 50	.225 48
49	.347 100	.341 97	.335 93	.330 90	.324 87	.318 84	.312 81	.307 78	.301 75	.295 72	.289 69	.284 67	.278 64	.272 62	.266 59	.261 57	.255 55	.249 53	.244 51	.238 48
50	.360 100	.354 97	.348 93	.343 90	.337 87	.331 84	.325 81	.320 78	.314 75	.308 73	.302 70	.297 67	.291 65	.285 63	.280 60	.274 58	.268 56	.262 54	.257 51	.251 49
51	.373 100	.368 97	.362 93	.356 90	.350 87	.345 84	.339 81	.333 79	.328 76	.322 73	.316 71	.310 68	.304 66	.299 63	.293 61	.287 59	.282 56	.276 54	.270 52	.264 50
52	.387 100	.382 97	.376 94	.370 90	.364 87	.359 84	.353 82	.347 79	.341 76	.336 74	.330 71	.324 69	.318 66	.313 64	.307 62	.301 59	.296 57	.290 55	.284 53	.278 51
53	.402 100	.396 97	.390 94	.385 91	.379 88	.373 85	.367 82	.362 79	.356 77	.350 74	.344 72	.339 69	.333 67	.327 64	.321 62	.316 60	.310 58	.304 56	.298 54	.293 52
54	.417 100	.411 97	.405 94	.400 91	.394 88	.388 85	.382 82	.376 80	.371 77	.365 74	.359 72	.353 70	.348 67	.342 65	.336 63	.330 61	.325 58	.319 56	.313 55	.308 53
55	.432 100	.426 97	.421 94	.415 91	.409 88	.403 85	.398 83	.392 80	.386 77	.380 75	.375 72	.369 70	.363 68	.357 66	.352 63	.346 61	.340 59	.334 57	.328 55	.323 53
56	.448 100	.442 97	.437 94	.431 91	.425 88	.419 86	.414 83	.408 80	.402 78	.396 75	.390 73	.385 71	.379 68	.373 66	.367 64	.362 62	.356 60	.350 58	.344 56	.338 54
57	.464 100	.459 97	.453 94	.447 91	.441 88	.436 86	.430 83	.424 81	.418 78	.413 76	.407 73	.401 71	.395 69	.390 67	.384 64	.378 62	.372 60	.366 58	.361 57	.355 55
58	.482 100	.476 97	.470 94	.464 91	.458 89	.453 86	.447 83	.441 81	.435 78	.430 76	.424 74	.418 71	.412 69	.406 67	.401 65	.395 63	.389 61	.383 59	.378 57	.372 55
59	.499 100	.493 97	.487 94	.482 92	.476 89	.470 86	.464 84	.458 81	.453 79	.447 76	.441 74	.435 72	.430 70	.424 68	.418 66	.412 63	.406 62	.401 60	.395 58	.389 56

Continued on page 58.

# HUMIDITY TABLES—XII.

B.—25°.8.  
W. B.—40° to 59°.8.  
t.—t'.—10° 0 to 19° 5

Absolute and Relative Humidities.

Pressure 25" .8.

Wet bulb.	Dry Bulb—Wet Bulb.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
40	·138 37	·127 35	·122 33	·116 30	·110 28	·104 26	·099 25	·093 23	·088 21	·082 19	·076 18	·070 16	·065 14	·059 13	·053 11	·048 10	·042 9	·036 7	·031 6	·025 5
41	·142 38	·137 36	·131 34	·125 31	·120 30	·114 28	·108 26	·103 24	·097 22	·091 21	·086 19	·080 18	·074 16	·069 15	·063 13	·057 12	·052 10	·046 9	·040 8	·034 7
42	·152 39	·147 37	·141 35	·135 33	·130 31	·124 29	·118 27	·112 26	·107 24	·101 22	·096 21	·090 19	·084 17	·078 16	·073 15	·067 13	·061 12	·056 11	·050 9	·044 8
43	·163 40	·157 38	·151 36	·146 34	·140 32	·134 31	·128 29	·123 27	·117 25	·111 24	·106 22	·100 20	·094 19	·089 17	·083 16	·077 15	·072 13	·066 12	·060 11	·054 10
44	·173 42	·168 39	·162 37	·156 35	·150 34	·145 32	·139 30	·133 28	·128 26	·122 25	·116 23	·110 22	·105 20	·099 19	·093 17	·088 16	·082 15	·076 14	·071 12	·065 11
45	·184 43	·179 41	·173 39	·167 37	·161 35	·156 33	·150 31	·144 29	·139 28	·133 26	·127 25	·122 23	·116 22	·110 20	·104 19	·099 17	·093 16	·087 15	·082 14	·076 13
46	·196 44	·190 42	·184 40	·178 38	·173 36	·167 34	·161 32	·156 31	·150 29	·144 27	·138 26	·133 24	·127 23	·121 21	·116 20	·110 19	·104 18	·099 16	·093 15	·087 14
47	·207 45	·202 43	·196 41	·190 39	·185 37	·179 35	·173 33	·167 31	·162 30	·156 29	·150 27	·144 26	·139 24	·133 23	·127 21	·122 20	·116 19	·110 18	·104 16	·099 15
48	·220 46	·214 44	·208 42	·202 40	·197 38	·191 36	·185 35	·180 33	·174 31	·168 30	·162 28	·157 27	·151 25	·145 24	·140 23	·134 21	·128 20	·122 19	·117 18	·111 17
49	·232 46	·226 44	·221 43	·215 41	·209 39	·204 37	·198 36	·192 34	·186 32	·181 31	·175 29	·169 28	·163 27	·158 25	·152 24	·146 23	·140 21	·135 20	·129 19	·123 18
50	·245 47	·239 45	·234 44	·228 42	·222 40	·216 38	·211 37	·205 35	·199 33	·194 32	·188 30	·182 29	·176 28	·171 26	·165 25	·159 24	·153 22	·148 21	·142 20	·136 19
51	·259 48	·253 46	·247 45	·241 43	·236 41	·230 39	·224 38	·218 36	·213 34	·207 33	·201 32	·196 30	·190 29	·184 27	·178 26	·173 25	·167 24	·161 22	·155 21	·150 20
52	·272 49	·267 47	·261 45	·255 44	·250 42	·244 40	·238 39	·232 37	·227 36	·221 34	·215 33	·209 31	·204 30	·198 28	·192 27	·186 26	·181 25	·175 23	·169 22	·163 21
53	·287 50	·281 48	·275 46	·270 45	·264 43	·258 41	·252 40	·247 38	·241 36	·235 35	·229 34	·224 32	·218 31	·212 29	·206 28	·201 27	·195 26	·189 25	·183 23	·178 22
54	·302 51	·296 49	·290 47	·284 45	·279 44	·273 42	·267 40	·261 39	·256 37	·250 36	·244 35	·238 33	·233 32	·227 30	·221 29	·215 28	·210 27	·204 26	·198 24	·192 23
55	·317 51	·311 50	·306 48	·300 46	·294 45	·288 43	·282 41	·277 40	·271 38	·265 37	·259 35	·254 34	·248 33	·242 31	·236 30	·231 29	·225 28	·219 27	·213 25	·208 24
56	·333 52	·327 50	·321 49	·316 47	·310 45	·304 44	·298 42	·292 41	·287 39	·281 38	·275 36	·269 35	·264 34	·258 32	·252 31	·246 30	·240 29	·235 28	·229 26	·223 25
57	·349 53	·343 51	·338 49	·332 48	·326 46	·320 45	·314 43	·309 41	·303 40	·297 39	·291 37	·286 36	·280 35	·274 33	·268 32	·263 31	·257 30	·251 28	·245 27	·240 26
58	·366 54	·360 52	·354 50	·349 48	·343 47	·337 45	·331 44	·326 42	·320 41	·314 39	·308 38	·302 37	·297 35	·291 34	·285 33	·279 32	·274 31	·268 29	·262 28	·256 27
59	·383 54	·378 52	·372 51	·366 49	·360 48	·354 46	·349 45	·343 43	·337 42	·331 40	·326 39	·320 38	·314 36	·308 35	·302 34	·297 32	·291 31	·285 30	·279 29	·274 28

Continued on page 59.

B. = 25°.8.  
W. B. = 40° to 59°.  
t. - t' = 20° to 29° 5.

# HUMIDITY TABLES—XII.

Absolute and Relative Humidities.

Pressure 25" 8.

Wet bulb.	DRY BULB -- WET BULB.																			
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5
40	.019 4	.014 3	.008 1	.002																
41	.029 5	.023 4	.017 3	.012 2	.006 1															
42	.039 7	.033 6	.027 5	.022 4	.016 3	.010 2	.004 1													
43	.049 8	.043 7	.037 6	.032 5	.026 4	.020 3	.015 2	.009 1	.003											
44	.059 10	.054 9	.048 8	.042 7	.036 6	.031 5	.025 4	.019 3	.014 1	.008 1	.002									
45	.070 11	.064 10	.059 9	.053 8	.047 7	.042 6	.036 5	.030 4	.024 3	.019 3	.013 2	.007 1	.002							
46	.081 13	.076 12	.070 11	.064 10	.059 9	.053 8	.047 7	.041 6	.036 4	.030 4	.024 3	.019 2	.013 2	.007 1	.002					
47	.093 14	.087 13	.082 12	.076 11	.070 10	.064 9	.059 8	.053 7	.047 6	.042 5	.036 5	.030 4	.024 3	.019 2	.013 2	.007 1	.002			
48	.105 15	.100 14	.094 13	.088 12	.082 11	.076 10	.071 9	.065 8	.059 7	.054 7	.048 6	.042 5	.037 4	.031 4	.025 3	.019 2	.014 2	.008 1	.002	
49	.118 17	.112 15	.106 14	.100 13	.095 12	.089 12	.083 11	.078 10	.072 9	.066 8	.060 7	.055 6	.049 6	.043 5	.037 4	.032 3	.026 3	.020 2	.014 2	.009 1
50	.130 18	.125 17	.119 16	.113 15	.108 14	.102 13	.096 12	.090 11	.085 10	.079 9	.073 8	.067 8	.062 7	.056 6	.050 5	.044 5	.039 4	.033 3	.027 3	.022 2
51	.144 19	.138 18	.132 17	.127 16	.121 15	.115 14	.110 13	.104 12	.098 11	.092 10	.086 10	.081 9	.075 8	.069 7	.064 7	.058 6	.052 5	.046 5	.041 4	.035 3
52	.158 20	.152 19	.146 18	.140 18	.135 16	.129 15	.123 14	.117 13	.112 12	.106 12	.100 11	.094 10	.089 9	.083 9	.077 8	.072 7	.066 6	.060 6	.054 5	.048 4
53	.172 21	.166 20	.160 19	.155 18	.149 17	.143 16	.137 15	.132 14	.126 14	.120 13	.114 12	.109 11	.103 10	.097 10	.091 9	.086 8	.080 8	.074 7	.068 6	.063 6
54	.187 22	.181 21	.175 20	.169 19	.164 18	.158 17	.152 16	.146 15	.141 14	.135 14	.129 13	.123 12	.118 12	.112 11	.106 10	.100 9	.095 9	.089 8	.083 7	.077 7
55	.202 23	.196 22	.190 21	.184 20	.179 19	.173 18	.167 17	.162 17	.156 16	.150 15	.144 14	.138 13	.133 13	.127 12	.121 11	.115 10	.110 10	.104 9	.098 8	.092 8
56	.218 24	.212 23	.206 22	.200 21	.194 20	.189 19	.183 18	.177 18	.171 17	.166 16	.160 15	.154 14	.148 14	.142 13	.137 12	.131 11	.125 11	.119 10	.114 9	.108 9
57	.234 25	.228 24	.222 23	.216 22	.211 21	.205 20	.199 19	.193 19	.188 18	.182 17	.176 16	.170 15	.164 15	.159 14	.153 13	.147 12	.141 12	.136 11	.130 10	.124 10
58	.250 26	.245 25	.239 24	.233 23	.227 22	.222 21	.216 20	.210 20	.204 19	.198 18	.193 17	.187 16	.181 16	.175 15	.170 14	.164 13	.158 13	.152 12	.146 11	.141 11
59	.268 27	.262 26	.256 25	.250 24	.245 23	.239 22	.233 21	.227 21	.222 20	.216 19	.210 18	.204 17	.198 17	.193 16	.187 15	.181 14	.175 14	.169 12	.164 12	.158 12

Continued on page 60.



# HUMIDITY TABLES—XII.

Absolute and Relative Humidities.

Pressure 25".8.

B. = 25".8.  
W. B. = 40° to 59°.  
t. — t'. = 30° 0 to 39° 5.

Wet bulb.	DRY BULB — WET BULB.																			
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5
40																				
41																				
42																				
43																				
44																				
45																				
46																				
47																				
48																				
49	.003																			
50	.016 2	.010 1	.004																	
51	.029 3	.023 2	.018 2	.012 1	.008 1															
52	.043 4	.037 3	.031 3	.025 2	.020 2	.014 1	.008 1	.003												
53	.057 5	.051 4	.045 4	.040 3	.034 3	.028 2	.022 2	.017 1	.011 1	.005										
54	.072 6	.066 6	.060 5	.054 4	.048 4	.043 3	.037 3	.031 2	.026 2	.020 1	.014 1	.008 1	.002							
55	.087 7	.081 7	.075 6	.069 6	.064 5	.058 4	.052 4	.046 3	.040 3	.035 3	.029 2	.023 2	.018 1	.012 1	.006					
56	.102 8	.096 8	.091 7	.085 7	.079 6	.073 5	.068 5	.062 4	.056 4	.050 4	.044 3	.039 3	.033 2	.027 2	.021 1	.016 1	.010 1	.004		
57	.118 9	.112 9	.107 8	.101 7	.095 7	.089 6	.084 6	.078 5	.072 5	.066 4	.061 4	.055 4	.049 3	.043 3	.038 2	.032 2	.026 2	.020 1	.014 1	.009 1
58	.135 10	.129 10	.123 9	.118 8	.112 8	.106 7	.100 7	.094 6	.089 6	.083 5	.077 5	.071 5	.066 4	.060 4	.054 3	.048 3	.042 3	.037 2	.031 2	.025 1
59	.152 11	.146 11	.140 10	.135 9	.129 9	.123 8	.117 8	.112 7	.106 7	.100 6	.094 6	.088 5	.083 5	.077 5	.071 4	.065 4	.060 3	.054 3	.048 3	.042 2

Continued on page 61.

B. = 25°-8.  
W. B. = 60° to 79°.  
t. = 4° = 0° to 9°-5.

# HUMIDITY TABLES—XII.

Absolute and Relative Humidities.

Pressure 25°-8.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
60	.517 100	.511 97	.505 94	.500 92	.494 89	.488 86	.482 84	.476 81	.471 79	.465 77	.459 74	.453 72	.448 70	.442 68	.436 66	.430 64	.424 62	.419 60	.413 58	.407 57
61	.536 100	.530 97	.524 94	.518 92	.512 89	.507 87	.501 84	.495 82	.489 79	.484 77	.478 75	.472 73	.466 71	.460 68	.455 66	.449 64	.443 63	.437 61	.431 59	.426 57
62	.555 100	.549 97	.543 95	.538 92	.532 89	.526 87	.520 84	.514 82	.508 80	.503 77	.497 75	.491 73	.485 71	.480 69	.474 67	.468 65	.462 63	.456 61	.450 59	.445 58
63	.575 100	.569 97	.563 95	.557 92	.552 89	.546 87	.540 85	.534 82	.528 80	.523 78	.517 76	.511 73	.505 71	.499 69	.494 67	.488 65	.482 64	.476 62	.470 60	.464 58
64	.595 100	.589 97	.584 95	.578 92	.572 90	.566 87	.560 85	.554 83	.549 80	.543 78	.537 76	.531 74	.526 72	.520 70	.514 68	.508 66	.502 64	.496 62	.491 61	.485 59
65	.616 100	.610 97	.605 95	.599 92	.593 90	.587 87	.581 85	.576 83	.570 81	.564 78	.558 76	.552 74	.546 72	.541 70	.535 68	.529 66	.523 65	.518 63	.512 61	.506 59
66	.638 100	.632 97	.626 95	.621 92	.615 90	.609 88	.603 85	.597 83	.592 81	.586 79	.580 77	.574 75	.568 73	.562 71	.557 69	.551 67	.545 65	.539 63	.533 62	.528 60
67	.660 100	.655 97	.649 95	.643 92	.637 90	.631 88	.626 85	.620 83	.614 81	.608 79	.602 77	.596 75	.591 73	.585 71	.579 69	.573 67	.567 65	.562 64	.556 62	.550 60
68	.684 100	.678 97	.672 95	.666 93	.660 90	.654 88	.649 86	.643 83	.637 81	.631 79	.625 77	.620 75	.614 73	.608 71	.602 69	.596 68	.590 66	.584 64	.579 62	.573 61
69	.707 100	.702 97	.696 95	.690 93	.684 90	.678 88	.672 86	.666 84	.661 82	.655 79	.649 77	.643 75	.637 74	.632 72	.626 70	.620 68	.614 66	.608 65	.602 63	.596 61
70	.732 100	.726 98	.721 95	.716 93	.709 90	.703 88	.697 86	.691 84	.685 82	.679 80	.674 78	.668 76	.662 74	.656 72	.650 70	.644 68	.638 67	.633 65	.627 63	.621 62
71	.757 100	.752 98	.746 95	.740 93	.734 91	.728 88	.722 86	.716 84	.710 82	.705 80	.699 78	.693 76	.687 74	.681 72	.675 71	.670 69	.664 67	.658 65	.652 64	.646 62
72	.783 100	.778 98	.772 95	.766 93	.760 91	.754 89	.748 86	.742 84	.737 82	.731 80	.725 78	.719 76	.713 75	.707 73	.702 71	.696 69	.690 67	.684 66	.678 64	.672 63
73	.810 100	.804 98	.798 95	.793 93	.787 91	.781 89	.775 87	.769 85	.763 82	.758 80	.752 79	.746 77	.740 75	.734 73	.728 71	.722 70	.716 68	.711 66	.705 65	.699 63
74	.838 100	.832 98	.826 95	.820 93	.814 91	.809 89	.803 87	.797 85	.791 83	.785 81	.779 79	.773 77	.768 75	.762 73	.756 72	.750 70	.744 68	.738 67	.732 65	.726 63
75	.866 100	.860 98	.855 95	.849 93	.843 91	.837 89	.831 87	.825 85	.819 83	.814 81	.808 79	.802 77	.796 75	.790 74	.784 72	.778 70	.772 69	.767 67	.761 65	.755 64
76	.896 100	.890 98	.884 95	.878 93	.872 91	.866 89	.860 87	.855 85	.849 83	.843 81	.837 79	.831 77	.825 76	.819 74	.813 72	.808 71	.802 69	.796 67	.790 66	.784 64
77	.926 100	.920 98	.914 96	.908 93	.902 91	.896 89	.891 87	.885 85	.879 83	.873 81	.867 80	.861 78	.855 76	.850 74	.844 73	.838 71	.832 69	.826 68	.820 66	.814 65
78	.957 100	.951 98	.945 96	.939 93	.934 91	.928 89	.922 87	.916 85	.910 83	.904 82	.898 80	.892 78	.886 76	.880 74	.875 73	.869 71	.863 70	.857 68	.851 66	.845 65
79	.989 100	.983 98	.977 96	.971 93	.965 91	.960 89	.954 87	.948 85	.942 84	.936 82	.930 80	.924 78	.918 76	.912 75	.906 73	.901 71	.895 70	.889 68	.883 67	.877 65

Continued on page 62.

# HUMIDITY TABLES—XII.

B. = 25° 8.  
W. B. = 60° to 79°.  
t. — t' = 10° 0 19° 5.

Absolute and Relative Humidities.

Pressure 25" 8.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
60	·401 55	·386 53	·390 51	·384 50	·378 48	·372 47	·366 45	·361 44	·355 42	·349 41	·343 40	·338 38	·332 27	·326 36	·320 35	·314 33	·309 32	·303 31	·297 30	·291 29
61	·420 55	·414 54	·408 52	·402 51	·397 49	·391 47	·385 46	·379 45	·374 43	·368 42	·362 40	·356 39	·350 38	·345 37	·339 35	·333 34	·327 33	·321 32	·316 31	·310 30
62	·439 56	·433 54	·427 53	·422 51	·416 50	·410 48	·404 47	·398 46	·393 44	·387 42	·381 41	·375 40	·369 39	·364 37	·358 36	·352 35	·346 34	·340 33	·335 32	·329 31
63	·459 57	·453 55	·447 53	·441 52	·436 50	·430 49	·424 47	·418 46	·412 45	·406 43	·401 42	·395 41	·389 39	·383 38	·378 37	·372 36	·366 35	·360 34	·354 32	·348 31
64	·479 57	·473 56	·467 54	·462 52	·456 51	·450 49	·444 48	·438 47	·433 45	·427 44	·421 43	·415 41	·409 40	·404 39	·398 38	·392 27	·386 35	·380 34	·374 33	·369 32
65	·500 58	·494 56	·488 55	·483 53	·477 51	·471 50	·465 49	·459 47	·454 46	·448 45	·442 43	·436 42	·430 41	·424 40	·419 38	·413 37	·407 36	·401 35	·395 34	·390 33
66	·522 58	·516 57	·510 55	·504 54	·498 52	·493 51	·487 49	·481 48	·475 46	·469 45	·464 44	·458 43	·452 41	·446 40	·440 39	·434 38	·429 37	·423 36	·417 35	·411 34
67	·544 59	·538 57	·532 56	·526 54	·521 53	·515 51	·509 50	·503 48	·497 47	·492 46	·486 45	·480 43	·474 42	·468 41	·462 40	·457 39	·451 38	·445 36	·439 35	·433 34
68	·567 59	·561 58	·555 56	·550 55	·544 53	·538 52	·532 50	·526 49	·520 48	·514 46	·509 45	·503 44	·497 43	·491 42	·485 40	·480 39	·474 38	·468 37	·462 36	·456 35
69	·591 60	·585 58	·579 57	·573 55	·567 54	·562 52	·556 51	·550 50	·544 48	·538 47	·532 46	·526 45	·521 43	·515 42	·509 41	·503 40	·497 39	·492 38	·486 37	·480 36
70	·615 60	·609 59	·604 57	·598 56	·592 54	·586 53	·580 52	·574 50	·568 49	·562 48	·557 46	·551 45	·545 44	·539 43	·533 42	·528 41	·522 40	·516 38	·510 37	·504 36
71	·640 61	·634 59	·629 58	·623 56	·617 55	·611 53	·605 52	·599 51	·594 49	·588 48	·582 47	·576 46	·570 45	·564 43	·558 42	·553 41	·547 40	·541 39	·535 38	·529 37
72	·666 61	·660 60	·655 58	·649 57	·643 55	·637 54	·631 53	·625 51	·620 50	·614 49	·608 47	·602 46	·596 45	·590 44	·584 43	·579 42	·573 41	·567 40	·561 39	·555 38
73	·693 62	·687 60	·681 59	·676 57	·670 56	·664 54	·658 53	·652 52	·646 50	·640 49	·634 48	·629 47	·623 46	·617 44	·611 43	·605 42	·599 41	·594 40	·588 39	·582 38
74	·721 62	·715 60	·709 59	·703 58	·697 56	·691 55	·685 54	·680 52	·674 51	·668 50	·662 49	·656 47	·650 46	·644 45	·638 44	·633 43	·627 42	·621 41	·615 40	·609 39
75	·749 62	·743 61	·737 59	·731 58	·726 57	·720 55	·714 54	·708 53	·702 51	·696 50	·690 49	·684 48	·679 47	·673 46	·667 44	·661 43	·655 42	·649 41	·643 40	·638 39
76	·778 63	·772 61	·766 60	·761 58	·755 57	·749 56	·743 54	·737 53	·731 52	·725 51	·719 50	·714 48	·708 47	·702 46	·696 45	·690 44	·684 43	·678 42	·672 41	·667 40
77	·808 63	·802 62	·796 60	·791 59	·785 58	·779 56	·773 55	·767 54	·761 52	·755 51	·750 50	·744 49	·738 48	·732 47	·726 46	·720 44	·714 43	·708 42	·702 41	·697 40
78	·839 63	·833 62	·828 61	·822 59	·816 58	·810 57	·804 55	·798 54	·792 53	·786 52	·780 50	·774 49	·769 48	·763 47	·757 46	·751 45	·745 44	·739 43	·733 42	·727 41
79	·871 64	·865 62	·859 61	·854 60	·848 58	·842 57	·836 56	·830 55	·824 53	·818 52	·812 51	·806 50	·800 49	·795 48	·789 46	·783 45	·777 44	·771 43	·765 42	·759 41

Continued on page 63.

B. = 25°8.  
W. B. = 60° to 79°.  
t. — t'. = 20°0 to 29°5.

# HUMIDITY TABLES—XII.

Absolute and Relative Humidities.  
Pressure 25°8.

Wet bulb.	DRY BULB — WET BULB.																			
	20·0	20·5	21·0	21·5	22·0	22·5	23·0	23·5	24·0	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5
60	·236 28	·220 27	·274 26	·268 25	·262 24	·257 23	·251 22	·245 21	·239 21	·233 20	·228 19	·222 18	·216 17	·210 17	·204 16	·199 16	·193 15	·187 14	·181 13	·176 13
61	·304 29	·298 28	·292 27	·287 26	·281 25	·275 24	·269 23	·264 22	·258 21	·252 21	·246 20	·240 19	·234 18	·229 18	·223 17	·217 16	·211 15	·206 15	·200 14	·194 14
62	·323 30	·317 29	·311 28	·306 27	·300 26	·294 25	·288 24	·282 23	·277 22	·271 21	·265 21	·259 20	·253 19	·248 18	·242 18	·236 17	·230 16	·224 16	·219 15	·213 14
63	·343 30	·337 29	·331 28	·325 28	·320 27	·314 26	·308 25	·302 24	·296 23	·290 22	·235 22	·279 21	·273 20	·267 19	·261 19	·256 18	·250 17	·244 17	·238 16	·232 15
64	·363 31	·357 30	·351 29	·346 28	·340 27	·334 26	·328 25	·322 25	·316 24	·311 23	·305 22	·299 22	·293 21	·287 20	·282 19	·276 19	·270 18	·264 17	·258 17	·252 16
65	·384 32	·378 31	·372 30	·366 29	·360 28	·355 27	·349 26	·343 26	·337 25	·331 24	·326 23	·320 22	·314 22	·308 21	·302 20	·296 19	·291 19	·285 18	·279 17	·273 17
66	·405 33	·400 32	·394 31	·388 30	·382 29	·376 28	·370 27	·365 26	·359 25	·353 25	·347 24	·341 23	·336 22	·330 22	·324 21	·318 20	·312 20	·306 19	·300 18	·295 18
67	·428 33	·422 32	·416 31	·410 31	·404 30	·398 29	·393 28	·387 27	·381 26	·375 25	·369 25	·363 24	·358 23	·352 22	·346 22	·340 21	·334 20	·328 20	·323 19	·317 19
68	·450 34	·445 33	·439 32	·433 31	·427 30	·421 29	·415 29	·410 28	·404 27	·398 26	·392 25	·386 25	·380 24	·375 23	·369 22	·363 22	·357 21	·351 20	·346 20	·340 19
69	·474 35	·468 34	·462 33	·456 32	·451 31	·445 30	·439 29	·433 28	·427 28	·421 27	·416 26	·410 25	·404 25	·398 24	·392 23	·386 22	·381 22	·375 21	·369 20	·363 20
70	·496 35	·492 34	·487 33	·481 33	·475 32	·469 31	·463 30	·457 29	·452 28	·446 27	·440 27	·434 26	·428 25	·422 24	·416 24	·411 23	·405 22	·399 22	·393 21	·387 21
71	·523 36	·518 35	·512 34	·506 33	·500 32	·494 31	·488 31	·482 30	·477 29	·471 28	·465 27	·459 27	·453 26	·447 25	·442 24	·436 24	·430 23	·424 22	·418 22	·412 21
72	·549 37	·544 36	·538 35	·532 34	·526 33	·520 32	·514 31	·508 30	·502 30	·497 29	·491 28	·485 27	·479 27	·473 26	·467 25	·462 24	·456 24	·450 23	·444 22	·438 22
73	·576 37	·570 36	·564 35	·558 34	·552 34	·547 33	·541 32	·535 31	·529 30	·523 29	·517 29	·511 28	·506 27	·500 26	·494 26	·488 25	·482 24	·476 24	·470 23	·465 22
74	·603 38	·598 37	·592 36	·586 35	·580 34	·574 33	·568 32	·562 32	·556 31	·551 30	·545 29	·539 29	·533 28	·527 27	·521 26	·515 26	·510 25	·504 24	·498 24	·492 23
75	·632 38	·626 37	·620 37	·614 36	·608 35	·602 34	·596 33	·591 32	·585 31	·579 31	·573 30	·567 29	·561 28	·555 28	·550 27	·544 26	·538 26	·532 25	·526 24	·520 24
76	·661 39	·655 38	·649 37	·643 36	·637 35	·631 34	·625 34	·620 33	·614 32	·608 31	·602 30	·596 30	·590 29	·584 28	·578 28	·573 27	·567 26	·561 25	·555 25	·549 24
77	·691 39	·685 39	·679 38	·673 37	·667 36	·661 35	·655 34	·650 33	·644 33	·638 32	·632 31	·626 30	·620 30	·614 29	·608 28	·602 27	·597 27	·591 26	·585 26	·579 25
78	·722 40	·716 39	·710 38	·704 37	·698 36	·692 35	·686 35	·680 34	·674 33	·669 32	·663 32	·657 31	·651 30	·645 29	·639 29	·633 28	·627 27	·622 27	·616 26	·610 25
79	·753 41	·747 40	·742 39	·736 38	·730 37	·724 36	·718 35	·712 34	·706 34	·700 33	·694 32	·688 31	·683 31	·677 30	·671 29	·665 29	·659 28	·653 27	·647 27	·641 26

Continued on page 62.

# HUMIDITY TABLES—XII.

B. = 25" 8.  
W. B. = 60° to 79°.  
t. — t'. = 30" to 39° 5.

Absolute and Relative Humidities.

Pressure 25" 8.

Wet bulb.	DRY BULB — WET BULB.																			
	30°0	30°5	31°0	31°5	32°0	32°5	33°0	33°5	34°0	34°5	35°0	35°5	36°0	36°5	37°0	37°5	38°0	38°5	39°0	39°5
60	.170 12	.184 11	.158 11	.152 10	.147 10	.141 9	.135 9	.129 8	.124 8	.118 7	.112 7	.106 6	.100 6	.094 5	.089 5	.083 5	.077 4	.071 4	.066 3	.060 3
61	.188 13	.182 12	.177 12	.171 11	.165 11	.159 10	.153 10	.148 9	.142 9	.136 8	.130 8	.124 7	.119 7	.113 6	.107 6	.101 6	.096 5	.090 5	.084 4	.078 4
62	.207 14	.201 13	.195 13	.190 12	.184 12	.178 11	.172 10	.166 10	.161 9	.155 9	.149 8	.143 8	.137 8	.132 7	.126 7	.120 6	.114 6	.108 6	.103 5	.097 5
63	.227 15	.221 14	.215 13	.209 13	.203 12	.198 12	.192 11	.186 11	.180 10	.174 10	.169 9	.163 9	.157 8	.151 8	.145 8	.140 7	.134 7	.128 6	.122 6	.116 6
64	.247 15	.241 15	.235 14	.229 14	.224 13	.218 13	.212 12	.206 12	.200 11	.194 11	.189 10	.183 10	.177 9	.171 9	.165 8	.160 8	.154 8	.148 7	.142 7	.136 6
65	.268 16	.262 16	.256 15	.250 15	.244 14	.238 13	.233 13	.227 12	.221 12	.215 11	.209 11	.204 10	.198 10	.192 10	.186 9	.180 9	.174 8	.169 8	.163 8	.157 7
66	.289 17	.283 16	.277 16	.271 15	.266 15	.260 14	.254 14	.248 13	.242 13	.236 12	.231 12	.225 11	.219 11	.213 10	.207 10	.202 9	.196 9	.190 9	.184 8	.178 8
67	.311 18	.305 17	.299 17	.294 16	.288 15	.282 15	.276 14	.270 14	.264 13	.259 13	.253 12	.247 12	.241 11	.235 11	.229 11	.224 10	.218 10	.212 9	.206 9	.200 9
68	.334 19	.328 18	.322 17	.316 17	.310 16	.305 16	.299 15	.293 15	.287 14	.281 14	.276 13	.270 13	.264 12	.258 12	.252 11	.246 11	.240 10	.235 10	.229 10	.223 9
69	.357 19	.351 19	.346 18	.340 17	.334 17	.328 16	.322 16	.316 15	.311 15	.305 14	.299 14	.293 13	.287 13	.281 12	.276 12	.270 12	.264 11	.258 11	.252 10	.246 10
70	.382 20	.376 19	.370 19	.364 18	.358 18	.352 17	.346 17	.341 16	.335 15	.329 15	.323 15	.317 14	.311 14	.306 13	.300 13	.294 12	.288 12	.282 11	.276 11	.270 11
71	.406 21	.401 20	.395 19	.389 19	.383 18	.377 18	.371 17	.366 17	.360 16	.354 16	.348 15	.342 15	.336 14	.330 14	.325 13	.319 13	.313 12	.307 12	.301 12	.295 11
72	.432 21	.426 21	.421 20	.415 19	.409 19	.403 18	.397 18	.391 17	.386 17	.380 16	.374 16	.368 15	.362 15	.356 14	.350 14	.344 14	.339 13	.333 13	.327 12	.321 12
73	.459 22	.453 21	.447 21	.441 20	.435 20	.429 19	.424 18	.418 18	.412 17	.406 17	.400 16	.394 16	.388 15	.383 15	.377 15	.371 14	.365 14	.359 13	.353 13	.347 13
74	.486 22	.480 22	.474 21	.468 21	.463 20	.457 20	.451 19	.445 19	.439 18	.433 18	.427 17	.422 17	.416 16	.410 16	.404 15	.398 15	.392 14	.386 14	.380 14	.375 13
75	.514 23	.508 22	.502 22	.497 21	.491 21	.485 20	.479 20	.473 19	.467 19	.461 18	.456 18	.450 17	.444 17	.438 16	.432 16	.426 15	.420 15	.414 15	.409 14	.403 14
76	.543 23	.537 23	.531 22	.526 22	.520 21	.514 21	.508 20	.502 20	.496 19	.490 19	.484 18	.479 18	.473 17	.467 17	.461 16	.455 16	.449 16	.443 15	.437 15	.432 14
77	.573 24	.567 24	.561 23	.556 23	.550 22	.544 21	.538 21	.532 20	.526 20	.520 19	.514 19	.508 18	.502 18	.497 17	.491 17	.485 17	.479 16	.473 16	.467 15	.461 15
78	.604 25	.598 24	.592 24	.586 23	.580 23	.574 22	.569 21	.563 21	.557 20	.551 20	.545 19	.539 19	.533 18	.527 18	.521 18	.516 17	.510 17	.504 16	.498 16	.492 15
79	.636 26	.630 25	.624 24	.618 24	.612 23	.606 23	.600 22	.594 21	.588 21	.582 20	.577 20	.571 19	.565 19	.559 19	.553 18	.547 18	.541 17	.535 17	.529 16	.524 16

Continued on page 63.

B.—25°-8.  
W. B.—80° to 89°.  
t.—t'.—0° to 9°-5.

# HUMIDITY TABLES—XII.

Absolute and Relative Humidities.

Pressure 25"·8.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0·5	1·0	1·5	2·0	2·5	3·0	3·5	4·0	4·5	5·0	5·5	6·0	6·5	7·0	7·5	8·0	8·5	9·0	9·5
80	1·022 100	1·016 98	1·010 96	1·004 94	·998 92	·992 90	·986 88	·981 86	·975 84	·969 82	·963 80	·957 78	·951 77	·945 75	·939 73	·933 72	·928 70	·922 69	·916 67	·910 66
81	1·056 100	1·050 98	1·044 96	1·038 94	1·032 92	1·026 90	1·020 88	1·014 86	1·009 84	1·003 82	·997 80	·991 79	·985 77	·979 75	·973 74	·967 72	·961 70	·956 69	·950 67	·944 66
82	1·091 100	1·085 98	1·079 96	1·073 94	1·067 92	1·061 90	1·055 88	1·049 86	1·043 84	1·038 82	1·032 81	1·026 79	1·020 77	1·014 75	1·008 74	1·002 72	·996 71	·990 69	·984 68	·978 66
83	1·127 100	1·121 98	1·115 96	1·109 94	1·103 92	1·097 90	1·091 88	1·085 86	1·079 84	1·073 82	1·068 81	1·062 79	1·056 77	1·050 76	1·044 74	1·038 73	1·032 71	1·026 70	1·020 68	1·014 67
84	1·164 100	1·158 98	1·152 96	1·146 94	1·140 92	1·134 90	1·128 88	1·122 86	1·116 84	1·110 83	1·104 81	1·098 79	1·092 78	1·086 76	1·081 74	1·075 73	1·069 71	1·063 70	1·057 68	1·051 67
85	1·202 100	1·196 98	1·190 96	1·184 94	1·178 92	1·172 90	1·166 88	1·160 86	1·154 85	1·148 83	1·142 81	1·136 79	1·130 78	1·124 76	1·118 75	1·113 73	1·107 72	1·101 70	1·095 69	1·089 67
86	1·241 100	1·235 98	1·229 96	1·223 94	1·217 92	1·211 90	1·205 88	1·199 86	1·193 85	1·187 83	1·181 81	1·175 80	1·169 78	1·164 76	1·158 75	1·152 73	1·146 72	1·140 70	1·134 69	1·128 67
87	1·281 100	1·275 98	1·269 96	1·263 94	1·257 92	1·251 90	1·245 88	1·239 87	1·233 85	1·227 83	1·221 81	1·215 80	1·210 78	1·204 77	1·198 75	1·192 74	1·186 72	1·180 71	1·174 69	1·168 68
88	1·322 100	1·316 98	1·310 96	1·304 94	1·298 92	1·292 90	1·286 89	1·280 87	1·274 85	1·268 83	1·263 82	1·257 80	1·251 78	1·245 77	1·239 75	1·233 74	1·227 72	1·221 71	1·215 69	1·209 68
89	1·364 100	1·358 98	1·352 96	1·347 94	1·341 92	1·335 90	1·329 89	1·323 87	1·317 85	1·311 83	1·305 82	1·299 80	1·293 79	1·287 77	1·281 76	1·275 74	1·269 73	1·263 71	1·257 70	1·251 68

B.—25°-8.  
W. B.—80° to 89°.  
t.—t'.—20° to 29°-5.

Wet bulb.	DRY BULB — WET BULB.																			
	20·0	20·5	21·0	21·5	22·0	22·5	23·0	23·5	24·0	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5
80	·786 41	·780 40	·774 39	·768 38	·762 37	·756 37	·751 36	·745 35	·739 34	·733 33	·727 33	·721 32	·715 31	·709 30	·704 30	·698 29	·692 28	·686 28	·680 27	·674 27
81	·820 42	·814 41	·808 40	·802 39	·796 38	·790 37	·784 36	·778 35	·772 35	·767 34	·761 33	·755 32	·749 32	·743 31	·737 30	·731 30	·725 29	·719 28	·714 28	·708 27
82	·854 42	·848 41	·843 40	·837 39	·831 38	·825 38	·819 37	·813 36	·807 35	·801 34	·795 34	·789 33	·784 32	·778 31	·772 31	·766 30	·760 29	·754 29	·748 28	·742 28
83	·890 42	·884 42	·878 41	·872 40	·866 39	·860 38	·855 37	·849 36	·843 36	·837 35	·831 34	·825 33	·819 33	·813 32	·807 31	·801 31	·795 30	·790 29	·784 29	·778 28
84	·927 43	·921 42	·915 41	·909 40	·903 39	·897 39	·891 38	·885 37	·879 36	·873 35	·868 35	·862 34	·856 33	·850 33	·844 32	·838 31	·832 30	·826 30	·820 29	·814 29
85	·964 43	·958 42	·953 42	·947 41	·941 40	·935 39	·929 38	·923 37	·917 37	·911 36	·905 35	·899 34	·893 34	·887 33	·882 32	·876 32	·870 31	·864 30	·858 30	·852 29
86	1·003 44	·997 43	·992 42	·986 41	·980 40	·974 39	·968 39	·962 38	·956 37	·950 36	·944 36	·938 35	·932 34	·926 33	·920 33	·914 32	·908 31	·902 31	·897 30	·891 30
87	1·043 44	1·037 43	1·031 42	1·025 42	1·020 41	1·014 40	1·008 39	1·002 38	·996 38	·990 37	·984 36	·978 35	·972 35	·966 34	·960 33	·954 33	·948 32	·942 31	·936 31	·930 30
88	1·084 45	1·078 44	1·072 43	1·066 42	1·061 41	1·055 40	1·049 40	1·043 39	1·037 38	1·031 37	1·025 36	1·019 36	1·013 35	1·007 34	1·001 34	·995 33	·989 32	·983 32	·977 31	·971 30
89	1·126 45	1·120 44	1·115 43	1·109 42	1·103 42	1·097 41	1·091 40	1·085 39	1·079 38	1·073 38	1·067 37	1·061 36	1·055 35	1·049 35	1·043 34	1·037 33	1·031 33	1·025 32	1·019 31	1·014 31

# HUMIDITY TABLES—XII.

B. = 25°-8.  
W. B. = 80° to 89°.  
t - t' = 10°-0 to 19°.

Absolute and Relative Humidities.

Pressure 25"·8.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
80	.904 64	.898 63	.892 61	.886 60	.880 59	.874 57	.869 56	.863 55	.857 54	.851 53	.845 51	.839 50	.833 49	.827 48	.821 47	.816 46	.810 45	.804 44	.798 43	.792 42
81	.938 65	.932 63	.926 62	.920 60	.914 59	.908 58	.902 57	.896 55	.890 54	.885 53	.879 52	.873 51	.867 50	.861 48	.855 47	.849 46	.843 45	.837 44	.832 43	.826 42
82	.972 65	.967 63	.961 62	.955 61	.949 59	.943 58	.937 57	.931 56	.925 55	.919 53	.914 52	.908 51	.902 50	.896 49	.890 48	.884 47	.878 46	.872 45	.866 44	.860 43
83	1·008 65	1·002 64	.996 62	.991 61	.985 60	.979 59	.973 57	.967 56	.961 55	.955 54	.949 53	.943 51	.937 50	.931 49	.926 48	.920 47	.914 46	.908 45	.902 44	.896 43
84	1·045 66	1·039 64	1·033 63	1·027 61	1·021 60	1·016 59	1·010 58	1·004 56	.998 55	.992 54	.986 53	.980 52	.974 51	.968 50	.962 49	.956 48	.950 47	.944 46	.938 45	.933 44
85	1·083 66	1·077 64	1·071 63	1·065 62	1·059 61	1·053 59	1·047 58	1·042 57	1·036 56	1·030 55	1·024 53	1·018 52	1·012 51	1·006 50	1·000 49	.994 48	.988 47	.982 46	.976 45	.970 44
86	1·122 66	1·116 65	1·110 63	1·104 62	1·098 61	1·092 60	1·086 58	1·080 57	1·074 56	1·069 55	1·063 54	1·057 53	1·051 52	1·045 51	1·039 50	1·033 49	1·027 48	1·021 47	1·015 46	1·009 45
87	1·162 66	1·156 65	1·150 64	1·144 62	1·138 61	1·132 60	1·126 59	1·120 58	1·114 56	1·108 55	1·103 54	1·097 53	1·091 52	1·085 51	1·079 50	1·073 49	1·067 48	1·061 47	1·055 46	1·049 45
88	1·202 67	1·197 65	1·191 64	1·185 63	1·179 62	1·173 60	1·168 59	1·162 58	1·156 57	1·150 56	1·144 55	1·138 53	1·132 52	1·126 51	1·120 50	1·114 49	1·108 48	1·102 47	1·096 46	1·090 45
89	1·245 67	1·240 66	1·234 64	1·228 63	1·222 62	1·216 61	1·210 59	1·204 58	1·198 57	1·192 56	1·186 55	1·180 54	1·174 53	1·168 52	1·162 51	1·156 50	1·150 49	1·144 48	1·138 47	1·132 46

B. = 25°-8.  
W. B. = 80° to 89°.  
t - t' = 30°-0 to 39°-5.

Wet bulb.	DRY BULB — WET BULB.																			
	30·0	30·5	31·0	31·5	32·0	32·5	33·0	33·5	34·0	34·5	35·0	35·5	36·0	36·5	37·0	37·5	38·0	38·5	39·0	39·5
80	.666 26	.662 25	.656 25	.650 24	.644 24	.639 23	.633 23	.627 22	.621 21	.615 21	.609 20	.603 20	.597 20	.591 19	.586 19	.580 18	.574 18	.568 17	.562 17	.556 16
81	.702 26	.696 25	.690 25	.684 25	.678 24	.672 24	.666 23	.660 22	.654 22	.649 21	.643 21	.637 20	.631 20	.625 20	.619 19	.613 19	.607 18	.601 18	.595 17	.590 17
82	.736 27	.730 26	.724 26	.718 25	.713 25	.707 24	.701 24	.695 23	.689 23	.683 22	.677 21	.671 21	.665 20	.659 20	.654 20	.648 19	.642 19	.636 18	.630 18	.624 18
83	.772 27	.766 27	.760 26	.754 26	.748 25	.742 25	.736 24	.730 24	.724 23	.718 22	.713 22	.707 21	.701 21	.695 20	.689 20	.683 20	.677 19	.671 19	.665 18	.659 18
84	.808 28	.802 27	.796 27	.790 26	.785 26	.779 25	.773 25	.767 24	.761 23	.755 23	.749 22	.743 22	.737 22	.731 21	.725 21	.720 20	.714 20	.708 19	.702 19	.696 18
85	.846 28	.840 28	.834 27	.828 27	.822 26	.816 26	.810 25	.804 24	.798 24	.793 23	.787 23	.781 22	.775 22	.769 22	.763 21	.757 21	.751 20	.745 20	.739 19	.733 19
86	.885 29	.879 28	.873 28	.867 27	.861 27	.855 26	.849 25	.843 25	.837 24	.831 24	.825 23	.820 23	.814 22	.808 22	.802 22	.796 21	.790 21	.784 20	.778 20	.772 19
87	.924 29	.918 29	.913 28	.907 28	.901 27	.895 26	.889 26	.883 25	.877 25	.871 24	.865 24	.859 23	.853 23	.847 22	.841 22	.835 22	.830 21	.824 21	.818 20	.812 20
88	.966 30	.960 29	.954 29	.948 28	.942 27	.936 27	.930 26	.924 26	.918 25	.912 25	.906 24	.900 24	.894 23	.888 23	.882 22	.876 22	.870 22	.864 21	.858 21	.853 20
89	1·008 30	1·002 30	.996 29	.990 28	.984 28	.978 27	.972 27	.966 26	.960 26	.954 25	.948 25	.942 24	.936 24	.930 23	.924 23	.918 22	.912 22	.906 22	.900 21	.894 21

**INDEX**  
TO THE  
**HUMIDITY TABLES—XIII.**  
PRESSURE 23"4.

Wet bulb.	DRY BULB—WET BULB.			
	° 0 to 9·5	° 10 to 19·5	° 20 to 29·5	° 30 to 39·5
0 to 19	65			
20 to 39	66	67		
40 to 59	68	69	70	71
60 to 79	72	73	74	75

**ABSOLUTE HUMIDITIES** in inches of mercury at 32° F. and at sea-level, at 45° latitude are given in ordinary type.  
**RELATIVE HUMIDITIES** are given in *italics*.



# HUMIDITY TABLES—XIII.

B. = 23°4.  
W.B. = 0 to 19°.  
t.—t'. = 0 to 9°5.

Absolute and Relative Humidities.

Pressure 23"4.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
0	.045 100	.040 88	.036 76	.031 65	.027 54	.022 44	.018 34	.013 25	.009 16	.004										
1	.047 100	.043 89	.038 77	.034 67	.029 56	.024 46	.020 37	.015 28	.011 19	.006 11	.002 3									
2	.049 100	.045 89	.040 78	.036 68	.031 58	.027 48	.022 39	.018 30	.013 22	.008 14	.004 6									
3	.052 100	.047 89	.043 79	.038 69	.034 59	.029 50	.024 41	.020 33	.015 25	.011 17	.006 10	.002								
4	.054 100	.050 90	.045 79	.040 70	.036 61	.031 52	.027 43	.022 35	.018 27	.013 20	.009 13	.004								
5	.057 100	.052 90	.048 80	.043 71	.038 62	.034 54	.029 45	.025 38	.020 30	.016 23	.011 16	.007 9	.002 3							
6	.059 100	.055 90	.050 81	.046 72	.041 63	.036 55	.032 47	.027 40	.023 32	.018 25	.014 19	.009 12	.005 6							
7	.062 100	.057 91	.053 81	.048 73	.044 64	.039 57	.035 49	.030 42	.026 34	.021 28	.016 21	.012 15	.007 9	.003						
8	.065 100	.060 91	.056 82	.051 74	.047 66	.042 58	.038 51	.033 44	.028 37	.024 30	.019 24	.015 18	.010 12	.006 7	.001 1					
9	.068 100	.063 91	.059 83	.054 75	.050 67	.045 60	.040 52	.036 45	.031 39	.027 32	.022 26	.018 21	.013 15	.009 10	.004 4					
10	.071 100	.066 91	.062 83	.057 75	.053 68	.048 61	.044 54	.039 47	.034 41	.030 35	.025 29	.021 24	.016 18	.012 12	.007 7	.002				
11	.074 100	.070 92	.065 84	.060 76	.056 69	.051 62	.047 55	.042 49	.038 42	.033 37	.028 31	.024 25	.019 20	.015 15	.010 10	.006 6	.001 1			
12	.078 100	.073 92	.068 84	.064 77	.059 70	.055 63	.050 57	.046 51	.041 44	.036 39	.032 33	.027 28	.023 23	.018 18	.014 13	.009 8	.004 4			
13	.081 100	.076 92	.072 85	.067 78	.063 71	.058 64	.054 58	.049 52	.044 46	.040 41	.035 35	.031 30	.026 25	.022 20	.017 16	.012 11	.008 7	.003		
14	.085 100	.080 93	.076 85	.071 79	.066 72	.062 66	.057 59	.053 54	.048 48	.044 42	.039 37	.034 32	.030 27	.025 23	.021 18	.016 14	.011 10	.007 6	.002 2	
15	.088 100	.084 93	.079 86	.075 79	.070 73	.066 67	.061 61	.056 55	.052 49	.047 44	.043 39	.038 34	.034 29	.029 25	.024 20	.020 16	.015 12	.011 8	.006 5	.001
16	.092 100	.088 93	.083 86	.079 80	.074 73	.070 68	.065 62	.060 56	.056 51	.051 46	.046 41	.042 36	.037 31	.033 27	.028 23	.024 19	.019 15	.014 11	.010 7	.005 4
17	.096 100	.092 93	.087 87	.083 80	.078 74	.074 69	.069 63	.064 58	.060 52	.055 47	.051 42	.046 38	.041 33	.037 29	.032 25	.028 21	.023 17	.018 13	.014 10	.009 6
18	.101 100	.096 94	.092 87	.087 81	.082 75	.078 69	.073 64	.068 59	.064 54	.059 49	.055 44	.050 40	.046 35	.041 31	.036 27	.032 23	.027 19	.023 16	.018 12	.013 9
19	.105 100	.100 94	.096 87	.091 82	.087 76	.082 70	.078 65	.073 60	.068 55	.064 50	.059 46	.054 41	.050 37	.045 33	.041 29	.036 25	.032 21	.027 18	.022 15	.018 11

Continued on page 66.

B. = 23° 4.  
W. B. = 20° to 39°.  
t. = 0 to 9° 5.

# HUMIDITY TABLES—XIII.

Absolute and Relative Humidities.

Pressure 23" 4.

Wet bulb.	DRY BULB—WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
20	.110 100	.105 94	.100 88	.096 82	.091 77	.087 71	.082 66	.078 61	.073 56	.068 52	.064 47	.059 43	.054 39	.050 35	.045 31	.041 27	.036 24	.031 20	.027 17	.022 14
21	.114 100	.110 94	.105 88	.101 83	.096 77	.091 72	.087 67	.082 62	.078 57	.073 53	.068 48	.064 44	.059 40	.054 36	.050 33	.045 29	.041 26	.036 22	.032 19	.027 16
22	.119 100	.115 94	.110 88	.106 83	.101 78	.096 73	.092 68	.087 63	.082 58	.078 54	.073 50	.069 46	.064 42	.059 38	.055 34	.050 31	.046 27	.041 24	.036 21	.032 18
23	.124 100	.120 94	.115 89	.111 84	.106 78	.101 73	.097 69	.092 64	.088 60	.083 55	.078 51	.074 47	.069 43	.064 40	.060 36	.055 33	.051 29	.046 26	.041 23	.037 20
24	.130 100	.125 95	.120 89	.116 84	.111 79	.107 74	.102 69	.097 65	.093 61	.088 57	.084 52	.079 49	.074 45	.070 41	.065 38	.060 34	.056 31	.051 28	.047 25	.042 22
25	.135 100	.131 95	.126 89	.121 84	.117 79	.112 75	.108 70	.103 66	.098 62	.094 58	.089 54	.084 50	.080 46	.075 43	.070 39	.066 36	.061 33	.057 30	.052 27	.047 24
26	.141 100	.136 95	.132 90	.127 85	.122 80	.118 75	.113 71	.108 67	.104 63	.099 59	.095 55	.090 51	.085 47	.081 43	.076 41	.072 37	.067 34	.062 31	.058 28	.053 26
27	.147 100	.142 95	.138 90	.133 85	.128 81	.124 76	.119 72	.114 68	.110 64	.105 60	.101 56	.096 52	.091 49	.087 45	.082 42	.077 39	.073 36	.068 33	.064 30	.059 27
28	.153 100	.148 95	.144 90	.139 86	.134 81	.130 77	.125 72	.121 68	.116 64	.111 61	.107 57	.102 53	.097 50	.093 47	.088 43	.084 40	.079 37	.074 35	.070 32	.065 29
29	.159 100	.155 95	.150 90	.146 86	.141 81	.136 77	.132 73	.127 69	.122 65	.118 62	.113 59	.108 55	.104 51	.099 48	.094 45	.090 42	.085 39	.081 36	.076 33	.071 31
30	.166 100	.161 95	.157 91	.152 86	.147 82	.143 78	.138 74	.134 70	.129 66	.124 63	.120 59	.115 56	.110 52	.106 49	.101 46	.096 43	.092 40	.087 37	.082 35	.078 32
31	.173 100	.168 95	.164 91	.159 87	.154 82	.150 78	.145 74	.140 71	.136 67	.131 63	.126 60	.122 56	.117 53	.112 50	.108 47	.103 44	.098 41	.094 39	.089 36	.084 33
32	.180 100	.175 95	.170 91	.165 87	.160 82	.156 78	.150 74	.146 71	.141 67	.136 63	.131 60	.126 56	.121 53	.116 50	.112 47	.107 44	.102 41	.097 39	.092 36	.087 33
33	.187 100	.182 95	.177 91	.172 87	.167 82	.162 78	.156 74	.151 71	.146 67	.141 63	.136 60	.131 56	.126 53	.121 50	.116 47	.110 44	.105 41	.100 39	.095 36	.090 33
34	.195 100	.190 96	.185 91	.179 87	.174 83	.169 79	.164 75	.159 71	.154 67	.149 64	.144 61	.138 57	.133 54	.128 51	.123 48	.118 45	.113 42	.108 40	.103 37	.097 35
35	.202 100	.198 96	.192 91	.187 87	.182 83	.177 79	.172 75	.167 72	.162 68	.156 65	.151 61	.146 58	.141 55	.136 52	.131 49	.126 46	.121 44	.116 41	.110 38	.105 36
36	.211 100	.206 96	.201 91	.196 87	.190 83	.185 80	.180 76	.175 72	.170 69	.165 66	.160 62	.154 59	.149 56	.144 53	.139 50	.134 48	.129 45	.124 42	.118 40	.113 37
37	.219 100	.214 96	.209 92	.204 88	.199 84	.194 80	.188 76	.183 73	.178 70	.173 66	.168 63	.163 60	.158 57	.152 54	.147 51	.142 49	.137 46	.132 43	.127 41	.122 39
38	.228 100	.223 96	.218 92	.213 88	.208 84	.202 81	.197 77	.192 74	.187 70	.182 67	.177 64	.172 61	.166 58	.161 55	.156 52	.151 50	.146 47	.141 45	.136 42	.130 40
39	.237 100	.232 96	.227 92	.222 88	.216 84	.211 81	.206 77	.201 74	.196 71	.191 68	.186 65	.180 62	.175 59	.170 56	.165 53	.160 51	.155 48	.150 46	.144 43	.139 41

Continued on page 68.

# HUMIDITY TABLES—XIII.

B. = 23°4.  
W. B. = 20° to 39°.  
t.—t'. = 10°0 to 19°5.

Absolute and Relative Humidities.

Pressure 23"4.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
20	·018 11	·013 8	·008 5	·004																
21	·022 13	·018 10	·013 7	·008 5	·004 2															
22	·027 15	·022 12	·018 10	·013 7	·009 4	·004														
23	·032 17	·028 14	·023 12	·019 9	·014 7	·009 4	·004 2													
24	·037 19	·033 16	·028 14	·024 11	·019 9	·014 7	·010 4	·005												
25	·043 21	·038 18	·034 16	·029 13	·024 11	·020 9	·015 7	·010 4	·006 2	·001										
26	·048 23	·044 20	·039 18	·034 15	·030 13	·025 11	·021 9	·016 7	·011 5	·007 3	·002 1									
27	·054 25	·050 22	·045 20	·040 17	·036 15	·031 13	·026 11	·022 9	·017 7	·013 5	·008 3	·003								
28	·060 26	·056 24	·051 22	·046 19	·042 17	·037 15	·032 13	·028 11	·023 9	·019 7	·014 5	·009 3	·005 2							
29	·067 28	·062 26	·057 23	·053 21	·048 19	·043 17	·039 15	·034 13	·030 11	·025 9	·020 7	·016 5	·011 4	·006 2	·002 1					
30	·073 30	·068 27	·064 25	·059 23	·055 21	·050 18	·045 16	·041 14	·036 13	·031 11	·027 9	·022 7	·018 6	·013 4	·008 3	·004				
31	·080 31	·075 29	·071 27	·066 24	·061 22	·057 20	·052 18	·047 16	·043 14	·038 13	·033 11	·029 9	·024 8	·020 6	·015 4	·010 3	·006 2	·001		
32	·082 31	·078 29	·073 26	·068 24	·063 22	·058 20	·053 18	·048 16	·043 14	·038 12	·034 10	·029 9	·024 7	·019 6	·014 4	·009 3	·004 1			
33	·085 31	·080 29	·075 26	·069 24	·064 22	·059 20	·054 18	·049 16	·044 14	·039 12	·034 10	·028 9	·023 7	·018 6	·013 4	·008 2	·003 1			
34	·092 32	·087 30	·082 28	·077 25	·072 23	·067 21	·062 19	·056 17	·051 15	·046 14	·041 12	·036 10	·031 9	·026 7	·021 6	·016 4	·010 3	·005		
35	·100 34	·095 31	·090 29	·085 27	·080 25	·074 23	·069 21	·064 19	·059 17	·054 15	·049 14	·044 12	·039 10	·033 9	·028 7	·023 6	·018 5	·013 3	·008 2	·003
36	·108 35	·103 33	·098 30	·093 28	·088 26	·083 24	·077 22	·072 20	·067 19	·062 17	·057 15	·052 14	·047 12	·042 10	·036 9	·031 8	·026 6	·021 5	·016 4	·011 2
37	·116 36	·111 34	·106 32	·101 30	·096 28	·091 26	·086 24	·081 22	·075 20	·070 18	·065 17	·060 15	·055 14	·050 12	·045 11	·040 9	·034 8	·029 7	·024 5	·019 4
38	·125 37	·120 35	·115 33	·110 31	·105 29	·100 27	·094 25	·089 23	·084 22	·079 20	·074 18	·069 17	·064 15	·058 14	·053 12	·048 11	·043 10	·038 8	·033 7	·028 6
39	·134 39	·129 37	·124 34	·119 32	·114 30	·108 29	·103 27	·098 25	·093 23	·088 21	·083 20	·078 18	·072 17	·067 15	·062 14	·057 13	·052 11	·047 10	·042 9	·036 7

Continued on page 69.

B. = 23° 4.  
W.B. = 40° to 59°.  
t. = 1° to 9° 5.

# HUMIDITY TABLES—XIII.

Absolute and Relative Humidities.

Pressure 23° 4.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
40	245 100	241 96	236 92	231 89	226 85	221 81	216 78	210 75	205 71	200 68	195 65	199 62	185 60	180 57	174 54	169 52	164 49	159 47	154 44	149 42
41	256 100	251 96	246 92	241 89	236 85	230 82	225 78	220 75	215 72	210 69	205 66	200 63	194 60	189 58	184 55	179 53	174 50	168 48	163 45	158 43
42	266 100	261 96	256 93	251 89	246 85	240 82	235 79	230 76	225 73	220 70	215 67	209 64	204 61	199 59	194 56	189 53	184 51	178 49	173 46	168 43
43	277 100	271 96	266 93	261 89	256 86	251 83	246 79	240 76	235 73	230 70	225 67	220 65	215 62	209 59	204 57	199 54	194 52	189 50	184 47	178 45
44	287 100	282 96	277 93	272 89	267 86	261 83	256 80	251 77	246 74	241 71	236 68	230 65	225 63	220 60	215 58	210 55	204 53	199 51	194 48	189 46
45	298 100	293 96	288 93	283 90	278 86	272 83	267 80	262 77	257 74	252 71	247 69	242 66	236 63	231 61	226 58	221 56	216 54	210 51	205 49	200 47
46	310 100	305 97	300 93	294 90	289 87	284 83	279 80	274 77	268 75	263 72	258 69	253 66	248 64	242 61	237 59	232 57	227 54	222 52	217 50	212 48
47	322 100	317 97	311 93	306 90	301 87	296 84	291 81	286 78	280 75	275 72	270 70	265 67	260 65	254 62	249 60	244 57	239 55	234 53	228 51	223 49
4	334 100	329 97	324 93	318 90	313 87	308 84	303 81	298 78	293 76	287 73	282 70	277 68	272 65	267 63	261 60	256 58	251 56	246 54	241 52	236 50
49	347 100	342 97	336 93	331 90	325 87	321 84	316 81	310 79	305 76	300 73	295 71	290 68	284 66	279 63	274 61	269 59	264 57	258 55	253 53	248 51
50	360 100	355 97	349 94	344 91	339 88	334 85	329 82	323 79	318 76	313 74	308 71	303 69	297 66	292 64	287 62	282 60	277 57	271 55	266 53	261 51
51	373 100	368 97	363 94	358 91	353 88	347 85	342 82	337 79	332 77	327 74	321 72	316 69	311 67	306 65	300 62	295 60	290 58	285 56	280 54	274 52
52	387 100	382 97	377 94	372 91	367 88	361 85	356 82	351 80	346 77	340 75	335 72	330 70	325 67	320 65	314 63	309 61	304 59	299 57	294 55	288 53
53	402 100	397 97	391 94	386 91	381 88	376 85	370 83	365 80	360 78	355 75	350 73	344 70	339 68	334 66	329 64	324 61	318 59	313 57	308 55	303 54
54	417 100	412 97	406 94	401 91	396 88	391 86	386 83	380 80	375 78	370 75	365 73	359 71	354 68	349 66	344 64	338 62	333 60	328 58	323 56	318 54
55	432 100	427 97	422 94	416 91	411 89	406 86	401 83	396 81	390 78	385 76	380 73	375 71	370 69	364 67	359 65	354 63	349 61	343 59	338 57	333 55
56	443 100	443 97	438 94	432 91	427 89	422 86	417 83	412 81	406 79	401 76	396 74	391 72	385 69	380 67	375 65	370 63	364 61	359 59	354 57	349 56
57	464 100	459 97	454 94	449 92	444 89	438 86	433 84	428 81	423 79	417 77	412 74	407 72	402 70	396 68	391 66	386 64	381 62	376 60	370 58	365 56
58	432 100	476 97	471 94	466 92	460 89	455 87	450 84	445 82	440 79	434 77	429 75	424 72	419 70	413 68	408 66	403 64	398 62	392 60	387 59	382 57
59	499 100	494 97	489 94	483 92	478 89	473 87	468 84	462 82	457 80	452 77	447 75	441 73	436 71	431 69	426 67	420 65	415 63	410 61	405 59	399 57

Continued on page 72.

# HUMIDITY TABLES—XIII.

B. = 23° 4.  
W. B. = 40° to 59°.  
t. — t' = 10° 0 to 19° 5.

Absolute and Relative Humidities.

Pressure 23° 4.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
40	·144 40	·138 38	·133 36	·128 34	·123 32	·118 30	·112 28	·107 26	·102 25	·097 23	·092 21	·087 20	·082 18	·076 17	·071 15	·066 14	·061 13	·056 11	·051 10	·046 8
41	·153 41	·148 39	·143 37	·138 35	·132 33	·127 31	·122 29	·117 28	·112 26	·107 24	·102 23	·096 21	·091 20	·086 18	·081 17	·076 15	·070 14	·065 13	·060 12	·055 10
42	·163 42	·158 40	·153 38	·148 36	·142 34	·137 32	·132 31	·127 29	·122 27	·116 26	·111 24	·106 22	·101 21	·096 20	·091 18	·086 17	·080 16	·075 14	·070 13	·065 12
43	·173 43	·168 41	·163 39	·158 37	·153 35	·147 34	·142 32	·137 30	·132 28	·127 27	·122 25	·116 24	·111 22	·106 21	·101 20	·096 18	·091 17	·086 16	·080 14	·075 13
44	·184 44	·179 42	·174 40	·168 38	·163 36	·158 35	·153 33	·148 31	·142 30	·137 28	·132 26	·127 25	·122 24	·117 22	·112 21	·106 19	·101 18	·096 17	·091 16	·086 15
45	·195 45	·190 43	·184 41	·179 39	·174 38	·169 36	·164 34	·159 32	·154 31	·148 29	·143 28	·138 26	·133 25	·128 23	·122 22	·117 21	·112 20	·107 18	·102 17	·096 16
46	·206 46	·201 44	·196 42	·191 40	·186 39	·180 37	·175 35	·170 33	·165 32	·160 30	·154 29	·149 27	·144 26	·139 25	·134 23	·129 22	·123 21	·118 19	·113 18	·108 16
47	·218 47	·213 45	·208 43	·202 41	·197 40	·192 38	·187 36	·182 35	·177 33	·171 31	·166 30	·161 29	·156 27	·151 26	·146 24	·140 23	·135 22	·130 21	·125 20	·120 18
48	·230 48	·225 46	·220 44	·215 42	·210 41	·204 39	·199 37	·194 36	·189 34	·184 32	·178 31	·173 30	·168 28	·163 27	·158 26	·152 24	·147 23	·142 22	·137 21	·132 20
49	·243 49	·238 47	·232 45	·227 43	·222 41	·217 40	·212 38	·206 37	·201 35	·196 34	·191 32	·186 31	·180 29	·175 28	·170 27	·165 25	·160 24	·154 23	·149 22	·144 21
50	·256 49	·251 48	·245 46	·240 44	·235 42	·230 41	·225 39	·219 38	·214 36	·209 35	·204 33	·199 32	·193 30	·188 29	·183 28	·178 26	·173 25	·167 24	·162 23	·157 22
51	·269 50	·264 48	·259 47	·254 45	·248 43	·243 42	·238 40	·233 38	·228 37	·222 35	·217 34	·212 33	·207 31	·202 30	·196 29	·191 27	·186 26	·181 25	·176 24	·170 23
52	·283 51	·278 49	·273 47	·268 46	·262 44	·257 42	·252 41	·247 39	·242 38	·236 36	·231 35	·226 34	·221 32	·216 31	·210 30	·205 28	·200 27	·195 26	·189 25	·184 24
53	·298 52	·292 50	·287 48	·282 47	·277 45	·271 43	·266 42	·261 40	·256 39	·251 37	·245 36	·240 35	·235 32	·230 32	·224 31	·219 29	·214 28	·209 27	·204 26	·198 25
54	·312 53	·307 51	·302 49	·297 47	·292 46	·286 44	·281 43	·276 41	·271 40	·265 38	·260 37	·255 35	·250 34	·244 33	·239 32	·234 30	·229 29	·224 28	·219 27	·213 26
55	·328 53	·322 51	·317 50	·312 48	·307 46	·302 45	·296 43	·291 42	·286 40	·281 39	·276 38	·270 36	·265 35	·260 34	·255 32	·249 31	·244 30	·239 29	·234 28	·228 27
56	·344 54	·338 52	·333 50	·328 49	·323 47	·317 46	·312 44	·307 43	·302 41	·296 40	·291 38	·286 37	·281 36	·276 35	·270 33	·265 32	·260 31	·255 30	·249 29	·244 28
57	·360 54	·355 53	·349 51	·344 49	·339 48	·334 46	·328 45	·323 43	·318 42	·313 41	·308 39	·302 38	·297 37	·292 35	·286 34	·281 33	·276 32	·271 31	·266 30	·260 29
58	·377 55	·372 53	·366 52	·361 50	·356 49	·350 47	·345 46	·340 44	·335 43	·330 41	·324 40	·319 39	·314 37	·309 36	·303 35	·298 34	·293 33	·288 32	·282 30	·277 29
59	·394 56	·389 54	·384 52	·378 51	·373 49	·368 48	·363 46	·357 45	·352 43	·347 42	·342 41	·336 39	·331 38	·326 37	·321 36	·316 35	·310 33	·305 32	·300 31	·294 30

Continued on page 73.

B.=23°4.  
W. B.=40° to 59°.  
t.—t'=20°0 to 29°5.

# HUMIDITY TABLES—XIII.

Absolute and Relative Humidities.

Pressure 23°4.

Wet bulb.	DRY BULB — WET BULB.																			
	20°0	20°5	21°0	21°5	22°0	22°5	23°0	23°5	24°0	24°5	25°0	25°5	26°0	26°5	27°0	27°5	28°0	28°5	29°0	29°5
40	.040 8	.035 7	.030 6	.025 5	.020 4	.015 3	.010 2	.004 1												
41	.050 9	.045 8	.040 7	.034 6	.029 5	.024 4	.019 3	.014 2	.009 1	.004										
42	.060 11	.055 10	.049 9	.044 8	.039 7	.034 6	.029 5	.024 4	.018 3	.013 2	.008 1	.003								
43	.070 12	.065 11	.060 10	.054 9	.049 8	.044 7	.039 6	.034 5	.029 4	.024 3	.018 3	.013 2	.008 1	.003						
44	.080 13	.075 12	.070 11	.065 10	.060 9	.055 8	.049 7	.044 6	.039 5	.034 4	.029 3	.024 2	.018 2	.013 1	.008	.003				
45	.091 15	.086 14	.081 13	.076 12	.071 11	.066 10	.060 9	.055 8	.050 7	.045 6	.040 5	.034 4	.029 3	.024 2	.019 1	.014 1	.008	.003		
46	.103 16	.098 15	.092 14	.087 13	.082 12	.077 11	.072 10	.066 9	.061 8	.056 7	.051 6	.046 5	.040 4	.035 3	.030 2	.025 1	.020	.015	.009	.004
47	.114 17	.109 16	.104 15	.099 14	.094 13	.088 12	.083 11	.077 10	.073 9	.068 8	.062 7	.057 6	.052 5	.047 4	.042 3	.037 2	.031 1	.026	.021	.016
48	.126 18	.121 17	.116 16	.111 15	.106 14	.101 13	.095 12	.090 11	.085 10	.080 9	.075 8	.069 7	.064 6	.059 5	.054 4	.049 3	.044 2	.038 1	.033	.028
49	.139 20	.134 19	.128 18	.123 17	.118 16	.113 15	.108 14	.102 13	.097 12	.092 11	.087 10	.082 9	.077 8	.071 7	.066 6	.061 5	.056 4	.051 3	.045 2	.040 1
50	.152 21	.147 20	.141 19	.136 18	.131 17	.126 16	.121 15	.115 14	.110 13	.105 12	.100 11	.095 10	.089 9	.084 8	.079 7	.074 6	.069 5	.063 4	.058 3	.053 2
51	.165 22	.160 21	.155 20	.150 19	.144 18	.139 17	.134 16	.129 15	.124 14	.118 13	.113 12	.108 11	.103 10	.098 9	.092 8	.087 7	.082 6	.077 5	.072 4	.066 3
52	.179 23	.174 22	.169 21	.163 20	.158 19	.153 18	.148 17	.142 16	.137 15	.132 14	.127 13	.122 12	.116 11	.111 10	.106 9	.101 8	.096 7	.090 6	.085 5	.080 4
53	.193 24	.188 23	.183 22	.177 21	.172 20	.167 19	.162 18	.157 17	.152 16	.146 15	.141 14	.136 13	.131 12	.126 11	.120 10	.115 9	.110 8	.105 7	.099 6	.094 5
54	.208 25	.203 24	.198 23	.192 22	.187 21	.182 20	.177 19	.172 18	.166 17	.161 16	.156 15	.151 14	.145 13	.140 12	.135 11	.130 10	.124 9	.119 8	.114 7	.109 6
55	.223 26	.218 25	.213 24	.208 23	.202 22	.197 21	.192 20	.187 19	.181 18	.176 17	.171 16	.166 15	.161 14	.155 13	.150 12	.145 11	.140 10	.134 9	.129 8	.124 7
56	.239 27	.234 26	.228 25	.223 24	.218 23	.213 22	.208 21	.202 20	.197 19	.192 18	.187 17	.181 16	.176 15	.171 14	.166 13	.160 12	.155 11	.150 10	.145 9	.140 8
57	.255 28	.250 27	.245 26	.239 25	.234 24	.229 23	.224 22	.218 21	.213 20	.208 19	.203 18	.198 17	.192 16	.187 15	.182 14	.177 13	.171 12	.166 11	.161 10	.156 9
58	.272 28	.267 27	.262 26	.256 25	.251 24	.246 23	.240 22	.235 21	.230 20	.225 19	.220 18	.214 17	.209 16	.204 15	.199 14	.193 13	.188 12	.183 11	.178 10	.172 9
59	.289 29	.284 28	.279 27	.274 26	.268 25	.263 24	.258 23	.252 22	.247 21	.242 20	.237 19	.232 18	.226 17	.221 16	.216 15	.211 14	.205 13	.200 12	.195 11	.190 10

Continued on page 74.

# HUMIDITY TABLES—XIII.

Absolute and Relative Humidities.

Pressure 23".4.

B.—23".4.  
W. B.—40° to 59°.  
t.—t'.=30°0 to 39°5.

Wet bulb.	DRY BULB — WET BULB.																			
	30°0	30°5	31°0	31°5	32°0	32°5	33°0	33°5	34°0	34°5	35°0	35°5	36°0	36°5	37°0	37°5	38°0	38°5	39°0	39°5
40																				
41																				
42																				
43																				
44																				
45																				
46																				
47	.011 1	.005																		
48	.028 2	.018 2	.012 1	.007	.003															
49	.035 4	.030 3	.025 2	.019 2	.014 1	.009 1	.004													
50	.048 5	.043 4	.037 4	.032 3	.027 2	.022 2	.017 1	.011 1	.006 1	.001										
51	.061 6	.056 5	.051 5	.046 4	.040 4	.035 3	.030 3	.025 2	.019 2	.014 1	.009 1	.004								
52	.075 7	.070 6	.064 6	.059 5	.054 5	.049 4	.044 4	.038 3	.033 3	.028 2	.023 2	.018 1	.012 1	.007	.002					
53	.089 8	.084 7	.078 7	.073 6	.068 6	.063 5	.058 5	.052 4	.047 4	.042 3	.037 3	.032 2	.026 2	.021 2	.016 1	.011 1	.006			
54	.104 9	.098 8	.093 8	.088 7	.083 7	.078 6	.072 6	.067 5	.062 5	.057 4	.051 4	.046 3	.041 3	.036 3	.031 2	.025 2	.020 1	.015 1	.010 1	
55	.119 10	.114 9	.108 9	.103 8	.098 8	.093 7	.087 7	.082 6	.077 6	.072 5	.066 5	.061 4	.056 4	.051 3	.046 3	.040 3	.035 2	.030 2	.025 2	.020 1
56	.134 11	.129 10	.124 10	.119 9	.113 9	.108 8	.103 8	.098 7	.093 7	.087 6	.082 6	.077 5	.072 5	.066 4	.061 4	.056 4	.051 3	.045 3	.040 2	.035 2
57	.150 12	.145 11	.140 11	.135 10	.130 9	.124 9	.119 8	.114 8	.109 7	.103 7	.098 7	.093 6	.088 6	.082 5	.077 5	.072 4	.067 4	.062 4	.056 3	.051 3
58	.167 13	.162 12	.157 11	.152 11	.146 10	.141 10	.136 9	.131 9	.125 8	.120 8	.115 7	.110 7	.104 7	.099 6	.094 6	.089 5	.083 5	.078 5	.073 4	.068 4
59	.184 14	.179 13	.174 12	.169 12	.163 11	.158 11	.153 10	.148 10	.142 9	.137 9	.132 8	.127 8	.121 7	.116 7	.111 7	.106 6	.100 6	.095 5	.090 5	.085 5

Continued on page 75.

B. = 23".4.  
W. B. = 60° to 79°.  
t. — t'. = 0° to 9° 5.

# HUMIDITY TABLES—XIII.

Absolute and Relative Humidities.

Pressure 23".4.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
60	.517 100	.512 97	.506 95	.501 92	.496 89	.491 87	.486 84	.480 82	.475 80	.470 78	.464 75	.459 73	.454 71	.449 69	.444 67	.438 65	.433 63	.428 61	.422 60	.417 58
61	.536 100	.530 97	.525 95	.520 92	.515 90	.509 87	.504 85	.499 82	.494 80	.488 78	.483 76	.478 74	.473 72	.467 70	.462 68	.457 66	.452 64	.446 62	.441 60	.436 58
62	.555 100	.550 97	.544 95	.539 92	.534 90	.529 87	.523 85	.518 83	.513 80	.508 78	.502 76	.497 74	.492 72	.486 70	.481 68	.476 66	.471 64	.466 63	.460 61	.455 59
63	.575 100	.570 97	.564 95	.559 92	.554 90	.548 87	.543 85	.538 83	.533 81	.527 79	.522 76	.517 74	.512 72	.506 70	.501 68	.496 67	.491 65	.485 63	.480 61	.475 60
64	.595 100	.590 97	.585 95	.579 92	.574 90	.569 88	.564 85	.558 83	.553 81	.548 79	.542 77	.537 75	.532 73	.527 71	.521 69	.516 67	.511 65	.506 63	.500 62	.495 60
65	.616 100	.611 97	.606 95	.600 92	.595 90	.590 88	.585 86	.579 83	.574 81	.569 79	.564 77	.558 75	.553 73	.548 71	.542 69	.537 67	.532 66	.527 64	.521 62	.516 61
66	.638 100	.633 97	.628 95	.622 93	.617 90	.612 88	.606 86	.601 84	.596 81	.591 79	.585 77	.580 75	.575 73	.570 71	.564 70	.559 68	.554 66	.548 64	.543 63	.538 61
67	.660 100	.655 98	.650 95	.645 93	.639 90	.634 88	.629 86	.624 84	.618 82	.613 80	.608 78	.602 76	.597 74	.592 72	.586 70	.581 68	.576 66	.571 65	.565 63	.560 61
68	.684 100	.678 98	.673 95	.668 93	.662 90	.657 88	.652 86	.647 84	.641 82	.636 80	.631 78	.625 76	.620 74	.615 72	.610 70	.604 69	.599 67	.594 65	.588 64	.583 62
69	.707 100	.702 98	.697 95	.692 93	.686 91	.681 88	.676 86	.670 84	.665 82	.660 80	.654 78	.649 76	.644 74	.639 72	.633 71	.628 69	.623 67	.617 66	.612 64	.607 62
70	.732 100	.727 98	.721 95	.716 93	.711 91	.706 89	.700 86	.695 84	.690 82	.684 80	.679 78	.674 76	.668 75	.663 73	.658 71	.652 69	.647 68	.642 66	.637 64	.631 63
71	.757 100	.752 98	.747 95	.741 93	.736 91	.731 89	.726 87	.720 85	.715 82	.710 81	.704 79	.699 77	.694 75	.688 73	.683 71	.678 70	.672 68	.667 66	.662 65	.656 63
72	.783 100	.778 98	.773 95	.768 93	.762 91	.757 89	.752 87	.746 85	.741 83	.736 81	.730 79	.725 77	.720 75	.714 73	.709 72	.704 70	.698 68	.693 67	.688 65	.682 64
73	.810 100	.805 98	.800 95	.794 93	.789 91	.784 89	.778 87	.773 85	.768 83	.762 81	.757 79	.752 77	.746 75	.741 74	.736 72	.730 70	.725 69	.720 67	.715 65	.709 64
74	.838 100	.833 98	.827 95	.822 93	.817 91	.811 89	.806 87	.801 85	.795 83	.790 81	.785 79	.779 78	.774 76	.769 74	.763 72	.758 71	.753 69	.748 67	.742 66	.737 64
75	.866 100	.861 98	.856 96	.850 93	.845 91	.840 89	.834 87	.829 85	.824 83	.818 81	.813 80	.808 78	.802 76	.797 74	.792 73	.786 71	.781 69	.776 68	.771 66	.765 65
76	.896 100	.890 98	.885 96	.880 93	.874 91	.869 89	.864 87	.858 85	.853 83	.848 82	.842 80	.837 78	.832 76	.826 75	.821 73	.816 71	.810 70	.805 68	.800 67	.794 65
77	.926 100	.921 98	.915 96	.910 93	.905 91	.899 89	.894 87	.889 85	.883 84	.878 82	.873 80	.867 78	.862 76	.857 75	.851 73	.846 72	.841 70	.835 68	.830 67	.825 65
78	.957 100	.952 98	.946 96	.941 94	.936 92	.930 90	.925 88	.920 86	.914 84	.909 82	.904 80	.898 78	.893 77	.888 75	.882 73	.877 72	.872 70	.866 69	.861 67	.856 66
79	.989 100	.984 98	.978 96	.973 94	.968 92	.962 90	.957 88	.952 86	.946 84	.941 82	.936 80	.930 79	.925 77	.920 75	.914 74	.909 72	.904 71	.898 69	.893 68	.888 66



# HUMIDITY TABLES—XIII.

B. = 23°.4.  
W. B. = 60° to 79°.  
t.—t'. = 10° to 19° 5.

Absolute and Relative Humidities.

Pressure 23".4.

Wet bulb.	DRY BULB — WET BULB.																			
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5
60	.412 56	.407 55	.402 53	.396 51	.391 50	.386 48	.381 47	.375 46	.370 44	.365 43	.360 41	.354 40	.349 39	.344 38	.339 37	.333 35	.328 34	.323 33	.318 32	.312 31
61	.431 57	.425 56	.420 54	.415 52	.410 51	.404 49	.399 48	.394 46	.389 45	.383 43	.378 42	.373 41	.368 40	.362 38	.357 37	.352 36	.347 35	.341 34	.336 33	.331 32
62	.450 57	.444 56	.439 54	.434 53	.429 51	.423 50	.418 48	.413 47	.408 46	.402 44	.397 43	.392 42	.387 40	.381 39	.376 38	.371 37	.366 36	.360 35	.355 34	.350 33
63	.470 58	.464 56	.459 55	.454 53	.448 52	.443 50	.438 49	.433 48	.427 46	.422 45	.417 44	.412 42	.406 41	.401 40	.396 39	.391 38	.385 36	.380 35	.375 34	.370 33
64	.490 58	.485 57	.479 56	.474 54	.469 52	.464 51	.458 49	.453 48	.448 47	.442 46	.437 44	.432 43	.427 42	.421 41	.416 39	.411 38	.406 37	.400 36	.395 35	.390 34
65	.511 59	.506 57	.500 56	.495 54	.490 53	.484 51	.479 50	.474 49	.469 47	.463 46	.458 45	.453 44	.448 42	.442 41	.437 40	.432 39	.426 38	.421 37	.416 36	.411 35
66	.532 59	.527 58	.522 56	.517 55	.511 53	.506 52	.501 51	.496 49	.490 48	.485 47	.480 45	.474 44	.469 43	.464 41	.459 40	.453 39	.448 38	.443 37	.438 36	.432 35
67	.555 60	.550 58	.544 57	.539 55	.534 54	.528 53	.523 51	.518 50	.512 49	.507 47	.502 46	.497 45	.491 44	.486 42	.481 41	.476 40	.470 39	.465 38	.460 37	.454 36
68	.578 60	.573 59	.567 57	.562 56	.557 54	.551 53	.546 52	.541 50	.536 49	.530 48	.525 47	.520 45	.514 44	.509 43	.504 41	.498 41	.493 40	.488 39	.483 38	.477 37
69	.602 61	.598 59	.591 58	.586 56	.580 55	.575 54	.570 52	.564 51	.559 50	.554 48	.549 47	.543 46	.538 45	.533 43	.527 42	.522 41	.517 40	.512 39	.506 38	.501 37
70	.626 61	.621 60	.615 58	.610 57	.605 55	.600 54	.594 53	.589 51	.584 50	.578 49	.573 48	.568 46	.562 45	.557 44	.552 43	.547 42	.541 41	.536 40	.531 39	.525 38
71	.651 62	.646 60	.641 59	.635 57	.630 56	.625 55	.619 53	.614 52	.609 51	.604 49	.598 48	.593 47	.588 46	.582 44	.577 43	.572 42	.566 42	.561 40	.556 39	.550 38
72	.677 62	.672 61	.667 59	.661 58	.656 56	.651 55	.645 54	.640 53	.635 51	.630 50	.624 49	.619 48	.614 46	.608 45	.603 44	.598 43	.592 42	.587 41	.582 40	.576 39
73	.704 62	.699 61	.693 60	.688 58	.683 57	.677 56	.672 54	.667 53	.661 52	.656 50	.651 49	.646 48	.640 47	.635 46	.630 44	.624 43	.619 42	.614 41	.608 40	.603 39
74	.732 63	.726 61	.721 60	.716 59	.710 57	.705 56	.700 55	.694 53	.689 52	.684 51	.678 50	.673 49	.668 47	.662 46	.657 45	.652 44	.646 43	.641 42	.636 41	.630 40
75	.760 63	.755 62	.749 60	.744 59	.739 58	.733 56	.728 55	.723 54	.717 53	.712 51	.707 50	.701 49	.696 48	.691 47	.685 46	.680 44	.675 43	.669 42	.664 41	.659 40
76	.789 64	.784 62	.778 61	.773 59	.768 58	.762 57	.757 55	.752 54	.746 53	.741 52	.736 51	.730 50	.725 48	.720 47	.714 46	.709 45	.704 44	.699 43	.693 42	.688 41
77	.819 64	.814 63	.809 61	.803 60	.798 58	.793 57	.787 56	.782 55	.776 53	.771 52	.766 51	.760 50	.755 49	.750 47	.744 46	.739 45	.734 44	.728 43	.723 42	.718 41
78	.850 64	.845 63	.840 62	.834 60	.829 59	.824 58	.818 56	.813 55	.808 54	.802 53	.797 52	.792 50	.786 49	.781 48	.776 47	.770 46	.765 45	.760 44	.754 43	.749 42
79	.882 65	.877 63	.871 62	.866 61	.861 59	.855 58	.850 57	.845 55	.839 54	.834 53	.829 52	.823 51	.818 50	.813 48	.807 47	.802 46	.797 45	.791 44	.786 43	.781 42

B. = 23°.4.  
W. B. = 60° to 79°.  
t. — t'. = 20° 0 to 29° 5.

# HUMIDITY TABLES—XIII.

Absolute and Relative Humidities.

Pressure 23°.4.

Wet bulb.	DRY BULB — WET BULB.																			
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5
60	.307 30	.302 29	.297 28	.291 27	.286 26	.281 25	.276 24	.270 24	.265 23	.260 22	.255 21	.249 20	.244 20	.239 19	.234 18	.228 18	.223 17	.218 16	.213 16	.207 15
61	.326 31	.320 30	.315 29	.310 28	.304 27	.299 26	.294 25	.289 24	.284 24	.278 23	.273 22	.268 21	.262 20	.257 20	.252 19	.247 18	.242 18	.236 17	.231 16	.226 16
62	.345 32	.339 31	.334 30	.329 29	.324 28	.318 27	.313 26	.308 25	.302 24	.297 24	.292 23	.287 22	.282 21	.276 21	.271 20	.266 19	.260 18	.255 18	.250 17	.245 17
63	.364 32	.359 31	.354 30	.348 29	.343 29	.338 28	.333 27	.327 26	.322 25	.317 24	.312 24	.306 23	.301 22	.296 21	.290 21	.285 20	.280 19	.275 19	.270 18	.264 17
64	.384 33	.379 32	.374 31	.369 30	.363 29	.358 28	.353 28	.348 27	.342 26	.337 25	.332 24	.326 24	.321 23	.316 22	.311 21	.306 21	.300 20	.295 19	.290 19	.284 18
65	.405 34	.400 33	.395 32	.390 31	.384 30	.379 29	.374 28	.368 27	.363 27	.358 26	.353 25	.347 24	.342 24	.337 23	.332 22	.326 21	.321 21	.316 20	.310 19	.305 19
66	.427 34	.422 33	.416 33	.411 32	.406 31	.401 30	.395 29	.390 28	.385 27	.380 27	.374 26	.369 25	.364 24	.358 24	.353 23	.348 23	.342 21	.337 21	.332 20	.327 20
67	.449 35	.444 34	.439 33	.433 32	.428 31	.423 30	.417 30	.412 29	.407 28	.402 27	.396 26	.391 26	.386 25	.380 24	.375 24	.370 23	.365 22	.359 22	.354 21	.349 20
68	.472 36	.467 35	.462 34	.456 33	.451 32	.446 31	.440 30	.435 29	.430 29	.424 28	.419 27	.414 26	.409 26	.403 25	.398 24	.393 23	.388 23	.382 22	.377 22	.372 21
69	.496 36	.490 35	.485 34	.480 34	.474 33	.469 32	.464 31	.459 30	.453 29	.448 29	.443 28	.438 27	.432 26	.427 26	.422 25	.416 24	.411 23	.406 23	.400 22	.395 22
70	.520 37	.515 36	.510 35	.504 34	.499 33	.494 32	.488 32	.483 31	.477 30	.472 29	.467 28	.462 28	.456 27	.451 26	.446 26	.441 25	.435 24	.430 23	.425 23	.419 22
71	.545 38	.540 37	.535 36	.529 35	.524 34	.519 33	.513 32	.508 31	.503 31	.498 30	.492 29	.487 28	.482 28	.476 27	.471 26	.466 25	.460 25	.455 24	.450 23	.444 23
72	.571 38	.566 37	.560 36	.555 35	.550 34	.544 34	.539 33	.534 32	.529 31	.523 30	.518 30	.513 29	.507 28	.502 27	.497 27	.492 26	.486 26	.481 25	.476 24	.470 23
73	.598 39	.592 38	.587 37	.582 36	.576 35	.571 34	.566 33	.560 33	.555 32	.550 31	.545 30	.539 29	.534 29	.529 28	.523 27	.518 27	.513 26	.507 25	.502 25	.497 24
74	.625 39	.620 38	.614 37	.609 36	.604 35	.599 34	.593 34	.588 33	.583 32	.577 32	.572 31	.567 30	.561 29	.556 29	.550 28	.545 27	.540 27	.535 26	.530 25	.524 25
75	.653 40	.648 39	.643 38	.638 37	.632 36	.627 35	.622 34	.616 34	.611 33	.606 32	.600 31	.595 31	.590 30	.584 29	.579 28	.574 28	.568 27	.563 26	.558 26	.552 25
76	.683 40	.677 39	.672 38	.667 38	.661 37	.656 36	.651 35	.645 34	.640 33	.635 33	.629 32	.624 31	.619 30	.613 30	.608 29	.603 28	.597 28	.592 27	.587 26	.581 26
77	.712 41	.707 40	.702 39	.696 38	.691 37	.686 36	.680 36	.675 35	.670 34	.664 33	.659 32	.654 31	.648 31	.643 30	.638 30	.632 29	.627 28	.622 28	.616 27	.611 26
78	.744 41	.738 40	.733 39	.728 39	.722 38	.717 37	.712 36	.706 35	.701 34	.695 34	.690 33	.685 32	.679 31	.674 31	.669 30	.663 29	.658 29	.653 28	.647 27	.642 27
79	.775 42	.770 41	.765 40	.759 39	.754 38	.748 37	.743 37	.738 36	.732 35	.727 34	.722 33	.716 33	.711 32	.706 31	.700 31	.695 30	.690 29	.684 29	.679 28	.674 27

# HUMIDITY TABLES—XIII.

B. = 23°.4.  
W. B. = 60° to 79°.  
t. — t'. = 30° 0 to 39° 5.

Absolute and Relative Humidities.

Pressure 23" 4.

Wet bulb.	DRY BULB — WET BULB.																			
	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5
60	.202 14	.197 14	.192 13	.186 13	.181 12	.176 12	.171 11	.165 10	.160 10	.155 10	.150 9	.144 9	.139 8	.134 8	.129 7	.123 7	.118 7	.113 6	.108 6	.102 5
61	.220 16	.215 15	.210 14	.205 13	.199 13	.194 12	.189 12	.184 11	.178 11	.173 10	.168 10	.163 9	.157 9	.152 9	.147 8	.142 8	.136 7	.131 7	.126 7	.121 6
62	.239 16	.234 15	.229 15	.224 14	.218 14	.213 13	.208 13	.203 12	.197 12	.192 11	.187 11	.182 10	.176 10	.171 9	.166 9	.161 8	.155 8	.150 8	.145 7	.140 7
63	.259 17	.254 16	.248 16	.243 15	.238 14	.233 14	.227 13	.222 13	.217 12	.212 12	.206 11	.201 11	.196 10	.191 10	.185 10	.180 9	.175 9	.170 8	.164 8	.159 8
64	.279 17	.274 17	.269 16	.263 16	.258 15	.253 15	.247 14	.242 14	.237 13	.232 13	.226 12	.221 12	.216 11	.211 11	.205 10	.200 10	.195 10	.190 9	.184 9	.179 8
65	.300 18	.295 18	.289 17	.284 16	.279 16	.274 15	.268 15	.263 14	.258 14	.252 13	.247 13	.242 12	.237 12	.231 12	.226 11	.221 11	.216 10	.210 10	.205 9	.200 9
66	.321 19	.316 18	.311 18	.306 17	.300 17	.295 16	.290 16	.284 15	.279 15	.274 14	.269 14	.263 13	.258 13	.253 12	.248 12	.242 11	.237 11	.232 11	.226 10	.222 10
67	.344 20	.338 19	.333 18	.328 18	.322 17	.317 17	.312 16	.306 16	.301 15	.296 15	.291 14	.285 14	.280 13	.275 13	.269 12	.264 12	.259 12	.254 11	.248 11	.243 10
68	.366 20	.361 20	.356 19	.350 19	.345 18	.340 17	.335 17	.329 16	.324 16	.319 15	.313 15	.308 14	.303 14	.298 14	.292 13	.287 13	.282 12	.276 12	.271 11	.266 11
69	.390 21	.385 20	.379 20	.374 19	.369 19	.363 18	.358 18	.353 17	.347 17	.342 16	.337 16	.332 15	.326 15	.321 14	.316 14	.310 13	.305 13	.300 13	.294 12	.289 12
70	.414 22	.409 21	.404 20	.398 20	.393 19	.388 19	.382 18	.377 18	.372 17	.366 17	.361 16	.356 16	.351 15	.345 15	.340 14	.335 14	.329 14	.324 13	.319 13	.314 12
71	.439 22	.434 22	.428 21	.423 20	.418 20	.413 19	.407 19	.402 18	.397 18	.391 17	.386 17	.381 16	.375 16	.370 15	.365 15	.360 15	.354 14	.349 14	.344 13	.338 13
72	.465 23	.460 22	.454 22	.449 21	.444 21	.438 20	.433 19	.428 19	.422 18	.417 18	.412 17	.406 17	.401 17	.396 16	.391 16	.385 15	.380 15	.375 14	.369 14	.364 14
73	.491 23	.486 23	.481 22	.476 22	.470 21	.465 21	.460 20	.454 20	.449 19	.444 18	.438 18	.433 18	.428 17	.422 17	.417 16	.412 16	.406 15	.401 15	.396 14	.390 14
74	.519 24	.514 23	.508 23	.503 22	.498 22	.492 21	.487 21	.482 20	.476 20	.471 19	.466 19	.460 18	.455 18	.450 17	.444 17	.439 16	.434 16	.428 15	.423 15	.418 15
75	.547 25	.542 24	.536 23	.531 23	.526 22	.520 22	.515 21	.510 21	.504 20	.499 20	.494 19	.488 19	.483 18	.478 18	.472 17	.467 17	.462 16	.456 16	.451 16	.446 15
76	.576 25	.571 25	.565 24	.560 23	.555 23	.549 22	.544 22	.539 21	.533 21	.528 20	.523 20	.517 19	.512 19	.507 18	.501 18	.496 17	.491 17	.485 17	.480 16	.475 16
77	.606 26	.601 25	.595 24	.590 24	.585 23	.579 23	.574 22	.569 22	.563 21	.558 21	.553 20	.547 20	.542 19	.537 19	.531 18	.526 18	.521 18	.515 17	.510 17	.505 16
78	.637 26	.631 26	.626 25	.621 24	.615 24	.610 23	.605 23	.599 22	.594 22	.589 21	.583 21	.578 20	.573 20	.567 19	.562 19	.557 18	.551 18	.546 18	.541 17	.535 17
79	.668 27	.663 26	.658 26	.652 25	.647 24	.642 24	.636 23	.631 23	.626 22	.620 22	.615 21	.610 21	.604 20	.599 20	.594 19	.588 19	.583 19	.578 18	.572 18	.567 17

# INDEX

TO THE

## HUMIDITY TABLES—XIV.

PRESSURE 19"7.

Wet bulb.	DRY BULB — WET BULB.			
	° 0 to 9·5	° 10 to 19·5	° 20 to 29·5	° 30 to 39·5
—19 to 0	77			
0 to 19	78	79		
20 to 39	80	81	82	
40 to 59	84	85	86	87
60 to 69	88	89	88	89

ABSOLUTE HUMIDITIES in inches of mercury at 32° F. and at sea-level at 45° latitude  
are given in ordinary type.

RELATIVE HUMIDITIES *are given in italics.*

# HUMIDITY TABLES—XIV.

B. = 19°7.  
W.B. = 19° to 0.  
t.—t'. = 0 to 9°5.

Absolute and Relative Humidities.

Pressure 19"7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
--19	.018 100	.014 77	.010 55	.006 34	.003 13															
--18	.018 100	.015 78	.011 56	.007 37	.004 17															
--17	.020 100	.016 79	.012 58	.008 40	.004 21	.001														
--16	.020 100	.017 80	.012 60	.009 42	.005 24	.002														
--15	.022 100	.018 81	.014 62	.010 45	.006 27	.003														
--14	.023 100	.019 82	.015 64	.011 47	.008 30	.005														
--13	.024 100	.020 83	.016 65	.013 49	.009 33	.005 19	.001 5													
--12	.025 100	.021 83	.018 66	.014 51	.010 36	.006 22	.002 8													
--11	.026 100	.023 84	.019 68	.015 53	.011 39	.008 25	.004 12													
--10	.028 100	.024 84	.020 69	.016 55	.013 41	.009 28	.005 16	.001												
--9	.029 100	.025 85	.022 71	.018 57	.014 44	.010 31	.006 19	.003												
--8	.031 100	.027 86	.023 71	.019 58	.015 46	.012 34	.008 22	.004 12	1											
--7	.032 100	.028 86	.025 73	.021 60	.017 48	.013 37	.009 25	.006 15	.002 5											
--6	.034 100	.030 87	.026 74	.022 62	.019 50	.015 39	.011 28	.007 18	.003 8											
--5	.035 100	.032 87	.028 75	.024 63	.020 52	.016 41	.013 31	.009 21	.005 12	.001										
--4	.037 100	.033 88	.030 76	.026 65	.022 54	.018 44	.014 34	.011 24	.007 15	.003										
--3	.039 100	.035 88	.031 77	.028 66	.024 55	.020 46	.016 36	.012 27	.009 18	.005 10	.001 2									
--2	.041 100	.037 89	.033 78	.030 67	.026 57	.022 48	.018 38	.014 30	.010 21	.007 13	.003 5									
--1	.043 100	.039 89	.035 79	.032 69	.028 59	.024 50	.020 41	.016 32	.012 24	.009 16	.005 9	.001								
0	.045 100	.041 90	.037 79	.034 70	.030 60	.026 51	.022 43	.018 35	.014 27	.011 19	.007 12	.003								

Continued on page 78.

B. - 19°-7.  
W. B. = 0 to 19°.  
t. - t' = 0 to 9°-5.

# HUMIDITY TABLES—XIV.

Absolute and Relative Humidities.

Pressure 19°-7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
0	.045 100	.041 90	.037 79	.034 70	.030 60	.026 51	.022 43	.018 35	.014 27	.011 19	.007 12	.003								
1	.047 100	.043 90	.040 80	.036 71	.032 61	.028 53	.024 45	.020 37	.017 29	.013 22	.009 15	.005 9	.001 2							
2	.049 100	.046 90	.042 81	.038 72	.034 63	.030 55	.026 47	.023 39	.019 32	.015 25	.011 18	.007 12	.004 5							
3	.052 100	.048 91	.044 82	.040 73	.036 64	.033 56	.029 49	.025 41	.021 34	.017 27	.014 21	.010 15	.006 9	.002						
4	.054 100	.050 91	.046 82	.043 74	.039 65	.035 58	.031 50	.027 43	.024 36	.020 30	.016 23	.012 17	.008 12	.004 6	1					
5	.057 100	.053 91	.049 83	.045 75	.041 67	.038 59	.034 52	.030 45	.026 38	.022 32	.018 26	.015 20	.011 15	.007 9	.003 4					
6	.059 100	.056 92	.052 83	.048 75	.044 68	.040 61	.036 53	.032 47	.029 40	.025 34	.021 28	.017 23	.013 17	.010 12	.006 7	.002				
7	.062 100	.058 92	.054 84	.050 76	.047 69	.043 62	.039 55	.035 49	.031 42	.028 36	.024 31	.020 25	.016 20	.012 15	.008 10	.004 5	.001 1			
8	.065 100	.061 92	.057 84	.053 77	.050 70	.046 63	.042 56	.038 50	.034 44	.030 38	.026 33	.023 27	.019 22	.015 17	.011 13	.007 8	.004 4			
9	.068 100	.064 92	.060 85	.056 78	.052 71	.049 64	.045 58	.041 52	.037 46	.033 40	.030 35	.026 30	.022 25	.018 20	.014 15	.010 11	.006 7	.003		
10	.071 100	.067 93	.063 85	.060 78	.056 72	.052 65	.048 59	.044 53	.040 47	.036 42	.033 37	.029 32	.025 27	.021 22	.017 18	.013 14	.010 9	.006 6	.002 2	
11	.074 100	.070 93	.066 86	.063 79	.059 72	.055 66	.051 60	.047 55	.043 49	.040 44	.036 39	.032 34	.028 29	.024 25	.020 20	.016 16	.013 12	.009 8	.005 5	.001
12	.078 100	.074 93	.070 86	.066 80	.062 73	.058 67	.054 62	.051 56	.047 51	.043 46	.039 40	.035 36	.031 31	.028 27	.024 23	.020 19	.016 15	.012 11	.008 7	.004 4
13	.081 100	.077 93	.073 87	.070 80	.066 74	.062 68	.058 63	.054 57	.050 52	.046 47	.043 42	.039 38	.035 33	.031 29	.027 25	.023 21	.019 17	.016 13	.012 10	.008 6
14	.085 100	.081 93	.077 87	.073 81	.069 75	.065 69	.062 64	.058 59	.054 53	.050 49	.046 44	.042 39	.038 35	.035 31	.031 27	.027 23	.023 19	.019 16	.015 12	.011 9
15	.088 100	.085 94	.081 87	.077 82	.073 76	.069 71	.065 66	.062 60	.058 55	.054 50	.050 45	.046 41	.042 37	.038 33	.034 29	.031 25	.027 21	.023 18	.019 15	.015 12
16	.092 100	.088 94	.085 88	.081 82	.077 76	.073 71	.069 66	.065 61	.062 56	.058 52	.054 47	.050 43	.046 39	.042 35	.038 31	.034 27	.031 24	.027 20	.023 17	.019 14
17	.096 100	.093 94	.089 88	.085 83	.081 77	.077 72	.073 67	.069 62	.066 57	.062 53	.058 48	.054 44	.050 40	.046 36	.042 33	.038 29	.035 26	.031 22	.027 19	.023 16
18	.101 100	.097 94	.093 88	.089 83	.085 78	.081 73	.078 68	.074 63	.070 58	.066 54	.062 50	.058 46	.054 42	.050 38	.046 34	.043 31	.039 28	.035 24	.031 21	.027 18
19	.105 100	.101 94	.097 89	.094 84	.090 78	.086 73	.082 69	.078 64	.074 60	.070 55	.066 51	.062 47	.059 43	.055 40	.051 36	.047 33	.043 29	.039 26	.035 23	.032 20

Continued on page 80.

# HUMIDITY TABLES—XIV.

Absolute and Relative Humidities.

Pressure 19" 7.

B. = 19° 7.  
W. B. = 0 to 19°.  
t. — t' = 10° 0 to 19° 5.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
0																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12	·001																			
13	·004 3																			
14	·008 6	·004																		
15	·011 8	·007 5	·004 3																	
16	·015 11	·011 8	·007 5	·004																
17	·019 13	·015 10	·011 7	·008 5	·004 2															
18	·023 15	·020 12	·016 10	·012 7	·008 5	·004 3	1													
19	·028 17	·024 15	·020 12	·016 10	·012 7	·008 5	·004 2	·001												

Continued on page 81.

B. = 19°7.  
W. B. = 20° to 39°.  
t. - t' = 0 to 9°5.

# HUMIDITY TABLES—XIV.

Absolute and Relative Humidities.

Pressure 19°7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
20	.110 100	.108 95	.102 89	.098 84	.094 79	.090 74	.086 69	.083 65	.079 61	.075 57	.071 52	.067 49	.063 45	.059 41	.055 38	.052 34	.048 31	.044 28	.040 25	.036 22
21	.114 100	.110 95	.107 89	.103 84	.099 79	.095 75	.091 70	.087 66	.083 62	.080 58	.076 54	.072 50	.068 46	.064 43	.060 39	.056 36	.052 32	.048 30	.045 27	.041 24
22	.119 100	.115 95	.112 90	.108 85	.104 80	.100 75	.096 71	.092 67	.088 63	.084 59	.080 55	.077 51	.073 48	.069 44	.065 41	.061 38	.057 34	.053 31	.049 29	.046 26
23	.124 100	.120 95	.117 90	.113 85	.109 81	.105 76	.101 72	.097 68	.093 64	.089 60	.086 56	.082 52	.078 48	.074 45	.070 42	.066 39	.062 36	.058 33	.054 30	.051 28
24	.130 100	.126 95	.122 90	.118 86	.114 81	.110 77	.106 72	.102 68	.099 64	.095 61	.091 57	.087 53	.083 50	.079 47	.075 44	.071 41	.068 38	.064 35	.060 32	.056 29
25	.135 100	.131 95	.127 90	.124 86	.120 81	.116 77	.112 73	.108 69	.104 65	.100 62	.096 58	.092 55	.088 51	.085 48	.081 45	.077 42	.073 39	.069 36	.065 33	.061 31
26	.141 100	.137 95	.133 91	.129 86	.125 82	.121 78	.118 74	.114 70	.110 66	.106 63	.102 59	.098 56	.094 52	.090 49	.086 46	.082 43	.079 40	.075 38	.071 35	.067 32
27	.147 100	.143 95	.139 91	.135 87	.131 82	.127 78	.124 74	.120 71	.116 67	.112 63	.108 60	.104 57	.100 53	.096 50	.092 47	.088 45	.084 42	.081 39	.077 36	.073 34
28	.153 100	.149 96	.145 91	.141 87	.137 83	.134 79	.130 75	.126 71	.122 68	.118 64	.114 61	.110 58	.106 55	.102 52	.098 49	.094 46	.091 43	.087 40	.083 38	.079 35
29	.159 100	.156 96	.152 91	.148 87	.144 83	.140 79	.136 76	.132 72	.128 68	.124 65	.120 62	.116 59	.113 56	.109 53	.105 50	.101 47	.097 44	.093 42	.089 39	.085 37
30	.166 100	.162 96	.158 92	.154 88	.150 84	.146 80	.143 76	.139 73	.135 69	.131 66	.127 63	.123 59	.119 56	.115 54	.111 51	.107 48	.104 45	.100 43	.096 40	.092 38
31	.173 100	.169 96	.165 92	.161 88	.157 84	.153 80	.149 77	.145 73	.142 70	.138 67	.134 63	.130 60	.126 57	.122 54	.118 52	.114 49	.110 46	.106 44	.102 41	.098 39
32	.180 100	.176 96	.172 92	.168 88	.164 84	.159 80	.155 77	.151 73	.147 70	.143 67	.139 63	.135 60	.131 57	.127 54	.122 52	.118 49	.114 46	.110 44	.106 41	.102 39
33	.187 100	.183 96	.179 92	.174 88	.170 84	.166 80	.161 77	.157 73	.153 70	.148 67	.144 63	.140 60	.136 57	.131 54	.127 52	.123 49	.118 46	.114 44	.110 41	.105 39
34	.195 100	.190 96	.186 92	.182 88	.178 84	.173 81	.169 77	.165 74	.160 70	.156 67	.152 64	.147 61	.143 58	.139 55	.134 52	.130 50	.126 47	.122 45	.117 42	.113 40
35	.203 100	.198 96	.194 92	.190 88	.185 85	.181 81	.177 77	.172 74	.168 71	.164 68	.160 65	.155 62	.151 59	.147 56	.142 53	.138 51	.134 48	.129 46	.125 44	.121 41
36	.211 100	.207 96	.202 92	.198 89	.194 85	.189 81	.185 78	.181 75	.176 72	.172 68	.168 65	.163 62	.159 60	.155 57	.150 54	.146 52	.142 49	.137 47	.133 45	.129 42
37	.219 100	.215 96	.211 92	.206 89	.202 85	.198 82	.193 78	.189 75	.185 72	.180 69	.176 66	.172 63	.167 61	.163 58	.159 55	.154 53	.150 50	.146 48	.141 46	.137 43
38	.228 100	.224 96	.219 93	.215 89	.211 86	.206 82	.202 79	.198 76	.194 73	.189 70	.185 67	.180 64	.176 61	.172 59	.168 57	.163 54	.159 51	.154 49	.150 47	.146 45
39	.237 100	.233 96	.228 93	.224 89	.220 86	.215 83	.211 79	.207 76	.202 73	.198 70	.194 67	.189 65	.185 62	.181 59	.176 58	.172 55	.168 52	.163 50	.159 48	.155 45

Continued on page 84.



# HUMIDITY TABLES—XIV.

Absolute and Relative Humidities.

Pressure 19"7.

B.=19"7.  
W. B.=20° to 39°.  
t.—t'.=10°0 to 19°5.

Wet bulb.	DRY BULB—WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
20	·032 19	·028 17	·024 14	·021 12	·017 9	·013 7	·009 5	·005 3	·001 1											
21	·037 21	·033 19	·029 16	·025 14	·021 11	·017 9	·014 7	·010 5	·006 3	·002										
22	·042 23	·038 21	·034 18	·030 16	·026 13	·022 11	·018 9	·014 7	·010 5	·007 3	·003 1									
23	·047 25	·043 22	·039 20	·035 18	·031 15	·027 13	·023 11	·020 9	·016 7	·012 5	·008 3	·004								
24	·052 27	·048 24	·044 22	·040 20	·036 17	·032 15	·029 13	·025 11	·021 9	·017 7	·013 6	·009 4	·005 2	·001						
2	·057 28	·054 26	·050 24	·046 21	·042 19	·038 17	·034 15	·030 13	·026 11	·022 9	·018 7	·014 6	·011 4	·007 3	·003 1					
26	·063 30	·059 28	·055 25	·051 23	·047 21	·044 19	·040 17	·036 15	·032 13	·028 11	·024 9	·020 8	·016 6	·012 5	·008 3	·005	·001			
27	·069 31	·065 29	·061 27	·057 25	·053 22	·049 20	·046 18	·042 17	·038 15	·034 13	·030 11	·026 10	·022 8	·018 6	·014 5	·010 4	·007 2	·003		
2	·075 33	·071 31	·067 28	·063 26	·059 24	·056 22	·052 20	·048 18	·044 16	·040 15	·036 13	·032 11	·028 10	·024 8	·020 7	·016 5	·013 4	·009 2	·005 1	·001
29	·081 34	·077 32	·074 30	·070 28	·066 26	·062 24	·058 22	·054 20	·050 18	·046 16	·042 15	·038 13	·034 12	·031 10	·027 9	·023 7	·019 6	·015 5	·011 3	·007 2
30	·088 36	·084 33	·080 31	·076 29	·072 27	·068 25	·064 23	·060 21	·057 20	·053 18	·049 16	·045 15	·041 13	·037 12	·033 10	·029 9	·025 8	·021 6	·018 5	·014 4
31	·095 37	·091 35	·087 32	·083 30	·079 28	·075 26	·071 24	·067 23	·063 21	·059 19	·056 18	·052 16	·048 15	·044 13	·040 12	·036 10	·032 9	·028 8	·024 6	·020 5
32	·098 37	·094 35	·090 32	·086 30	·081 28	·077 26	·073 24	·069 23	·065 21	·061 19	·057 18	·053 16	·048 15	·044 13	·040 12	·036 10	·032 9	·028 8	·024 6	·020 5
33	·101 37	·097 35	·092 32	·088 30	·084 28	·079 26	·075 24	·071 23	·066 21	·062 19	·058 18	·054 16	·049 15	·045 13	·041 12	·036 10	·032 9	·028 8	·023 6	·019 5
34	·108 38	·104 35	·100 33	·096 31	·091 29	·087 28	·083 26	·078 24	·074 22	·070 21	·065 19	·061 17	·057 16	·052 14	·048 13	·044 12	·040 10	·035 9	·031 8	·027 6
35	·116 39	·112 37	·108 35	·103 33	·099 31	·095 29	·090 27	·086 25	·082 24	·078 22	·073 20	·069 19	·064 17	·060 16	·056 14	·052 13	·047 12	·043 11	·039 9	·034 8
36	·124 40	·120 38	·116 36	·112 34	·107 32	·103 30	·098 28	·094 28	·090 25	·086 23	·081 22	·077 20	·073 19	·068 17	·064 16	·060 15	·055 13	·051 12	·047 11	·042 10
37	·133 41	·128 39	·124 37	·120 35	·116 33	·111 31	·107 30	·102 28	·098 26	·094 25	·090 23	·085 22	·081 20	·076 19	·072 17	·068 16	·064 15	·059 13	·055 12	·051 11
38	·142 42	·137 40	·133 38	·128 36	·124 35	·120 33	·116 31	·111 29	·107 28	·102 26	·098 24	·094 23	·090 21	·085 21	·081 19	·077 17	·072 16	·068 15	·064 14	·059 13
39	·150 43	·146 41	·142 39	·137 37	·133 36	·129 34	·124 32	·120 30	·116 29	·111 27	·107 26	·103 24	·098 23	·094 21	·090 20	·085 19	·081 17	·077 16	·072 15	·068 14

Continued on page 85.

B. = 19°7.  
W. B. = 20° to 39°.  
t. - t'. = 20°0 to 29°5.

# HUMIDITY TABLES—XIV.

Absolute and Relative Humidities.

Pressure 19°7.

Wet bulb.	DRY BULB—WET BULB.																			
	20°0	20°5	21°0	21°5	22°0	22°5	23°0	23°5	24°0	24°5	25°0	25°5	26°0	26°5	27°0	27°5	28°0	28°5	29°0	29°5
20																				
21																				
22																				
23																				
24																				
25																				
26																				
27																				
28																				
29	.008 1																			
30	.010 3	.006 2	.002 1																	
31	.016 4	.012 3	.009 2	.005 1	.001															
32	.016 4	.012 3	.007 2	.003																
33	.015 4	.010 3	.006 2	.002																
34	.022 5	.018 4	.014 3	.009 3	.005 1	.001														
35	.030 7	.026 6	.021 5	.017 4	.013 3	.008 2	.004 1													
36	.038 8	.034 7	.029 6	.025 5	.021 4	.016 3	.012 2	.008 1	.003 1											
37	.046 10	.042 9	.038 8	.033 7	.029 6	.025 5	.020 4	.016 3	.012 2	.007 1	.003 1									
38	.055 11	.051 10	.046 9	.042 8	.038 7	.033 6	.029 5	.025 4	.020 3	.016 2	.012 1	.007 1	.003							
39	.064 13	.059 12	.055 11	.051 10	.046 9	.042 8	.038 7	.033 6	.029 5	.025 4	.020 3	.016 2	.012 1	.007 1	.003					

Continued on page 86.

# HUMIDITY TABLES—XIV.

B. = 19° 7.  
W. B. = 20° to 39°.  
t. — t'. = 20° 0 to 29° 5.

Absolute and Relative Humidities.

Pressure 19" 7.

Wet bulb.	DRY BULB — WET BULB.																			
	30° 0	30° 5	31° 0	31° 5	32° 0	32° 5	33° 0	33° 5	34° 0	34° 5	35° 0	35° 5	36° 0	36° 5	37° 0	37° 5	38° 0	38° 5	39° 0	39° 5
20																				
21																				
22																				
23																				
24																				
25																				
26																				
27																				
28																				
29																				
30																				
31																				
32																				
33																				
34																				
35																				
36																				
37																				
38																				
39																				

Continued on page 87.

B = 19° 7.  
W. B. = 40° to 59°.  
t. - t'. = 0 to 9° 5.

# HUMIDITY TABLES—XIV.

Absolute and Relative Humidities.

Pressure 19° 7.

Wet bulb.	DRY BULB—WET BULB.																			
	0	05	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
40	.246 100	.242 96	.238 93	.234 89	.229 86	.225 83	.220 80	.216 77	.212 74	.208 71	.203 68	.199 65	.194 63	.190 60	.186 58	.181 55	.177 53	.173 51	.168 49	.164 46
41	.256 100	.252 96	.249 93	.245 90	.239 87	.234 83	.230 80	.226 77	.222 74	.217 71	.213 69	.208 66	.204 63	.200 61	.195 58	.191 56	.187 54	.182 52	.178 49	.174 47
42	.266 100	.262 97	.258 93	.253 90	.249 87	.244 83	.240 80	.236 78	.231 75	.227 72	.223 69	.218 67	.214 64	.210 62	.205 59	.201 57	.197 55	.192 53	.188 50	.184 48
43	.277 100	.272 97	.268 93	.264 90	.259 87	.255 84	.250 81	.246 78	.242 75	.237 72	.233 70	.229 67	.224 65	.220 62	.216 60	.211 58	.207 55	.203 53	.198 51	.194 49
44	.287 100	.283 97	.279 93	.274 90	.270 87	.266 84	.261 81	.257 78	.252 76	.248 73	.244 70	.239 68	.235 65	.231 63	.226 61	.222 58	.218 56	.213 54	.209 52	.205 50
45	.298 100	.294 97	.290 93	.285 90	.281 87	.277 84	.272 82	.268 79	.264 76	.259 73	.255 71	.250 68	.246 66	.242 64	.237 61	.233 59	.229 57	.224 55	.220 53	.216 51
46	.310 100	.306 97	.301 94	.297 91	.292 88	.288 85	.284 82	.279 79	.275 76	.271 74	.266 71	.262 69	.258 66	.253 64	.249 62	.244 60	.240 58	.236 56	.231 53	.227 52
47	.322 100	.317 97	.313 94	.309 91	.304 88	.300 85	.296 82	.291 79	.287 77	.282 74	.278 72	.274 69	.269 67	.265 65	.261 63	.256 60	.252 58	.248 56	.243 54	.239 52
48	.334 100	.330 97	.325 94	.321 91	.317 88	.312 85	.308 82	.304 80	.299 77	.295 75	.290 72	.286 70	.282 68	.277 65	.273 63	.269 61	.264 59	.260 57	.255 55	.251 53
49	.347 100	.342 97	.338 94	.334 91	.329 88	.325 85	.320 83	.316 80	.312 78	.307 75	.303 73	.299 70	.294 68	.290 66	.286 64	.281 62	.277 60	.272 58	.268 56	.264 54
50	.360 100	.355 97	.351 94	.347 91	.342 88	.338 86	.334 83	.329 80	.325 78	.320 75	.316 73	.312 71	.307 69	.303 66	.298 64	.294 62	.290 60	.285 58	.281 56	.277 54
51	.373 100	.369 97	.365 94	.360 91	.356 89	.352 86	.347 83	.343 81	.338 78	.334 76	.330 74	.325 71	.321 69	.316 67	.312 65	.308 63	.303 61	.299 59	.294 57	.290 55
52	.387 100	.383 97	.379 94	.374 91	.370 89	.366 86	.361 84	.357 81	.352 79	.348 76	.344 74	.339 72	.335 70	.330 67	.326 65	.322 63	.317 61	.313 59	.308 57	.304 56
53	.402 100	.397 97	.393 94	.389 92	.384 89	.380 86	.376 84	.371 81	.367 79	.362 77	.358 74	.354 72	.349 70	.345 68	.340 66	.336 64	.332 62	.327 60	.323 59	.318 56
54	.417 100	.412 97	.408 94	.404 92	.399 89	.395 87	.390 84	.386 82	.382 79	.377 77	.373 75	.368 73	.364 70	.360 68	.355 66	.351 64	.346 62	.342 61	.338 59	.333 57
55	.432 100	.428 97	.423 94	.419 92	.415 89	.410 87	.406 84	.401 82	.397 80	.393 77	.388 75	.384 73	.379 71	.375 69	.371 67	.366 65	.362 63	.357 61	.353 59	.349 58
56	.448 100	.444 97	.439 95	.435 92	.430 89	.426 87	.422 84	.417 82	.413 80	.408 78	.404 75	.400 73	.395 71	.391 69	.386 67	.382 66	.378 63	.373 62	.369 60	.364 58
57	.464 100	.460 97	.456 95	.451 92	.447 90	.442 87	.438 85	.434 82	.429 80	.425 78	.420 76	.416 74	.412 72	.407 70	.403 68	.398 66	.394 64	.390 62	.385 60	.381 59
58	.482 100	.477 97	.473 95	.468 92	.464 90	.459 87	.455 85	.451 83	.446 80	.442 78	.437 76	.433 74	.429 72	.424 70	.420 68	.415 67	.411 64	.406 63	.402 61	.398 59
59	.499 100	.495 97	.490 95	.486 92	.481 90	.477 87	.472 85	.468 83	.464 81	.459 79	.455 76	.450 74	.446 72	.442 70	.437 69	.433 67	.428 65	.424 63	.420 61	.415 60

Continued on page 88.

# HUMIDITY TABLES—XIV.

B.—19°-7.  
W. B.—40° to 59°.  
t.—t'.—10°-0 to 19°-5.

Absolute and Relative Humidities.

Pressure 19"-7.

Wet bulb.	DRY BULB—WET BULB.																			
	10°0	10°5	11°0	11°5	12°0	12°5	13°0	13°5	14°0	14°5	15°0	15°5	16°0	16°5	17°0	17°5	18°0	18°5	19°0	19°5
40	.160 44	.155 42	.151 40	.147 39	.142 37	.138 35	.134 33	.129 32	.125 30	.121 28	.116 27	.112 25	.108 24	.103 23	.099 21	.095 20	.090 19	.086 18	.082 16	.077 15
41	.169 45	.165 43	.161 41	.156 40	.152 38	.148 36	.143 34	.139 33	.135 31	.130 30	.126 28	.122 27	.117 25	.113 24	.109 23	.104 21	.100 20	.096 19	.091 18	.087 16
42	.179 46	.175 44	.171 42	.166 41	.162 39	.158 37	.153 35	.149 34	.144 32	.140 31	.136 29	.132 28	.127 26	.123 25	.118 24	.114 22	.110 21	.105 21	.101 19	.097 18
43	.190 47	.185 45	.181 43	.177 42	.172 40	.168 38	.164 36	.159 35	.155 33	.150 32	.146 30	.142 29	.137 28	.133 26	.129 25	.124 24	.120 22	.116 22	.111 20	.107 19
44	.200 48	.196 46	.192 44	.187 43	.183 41	.178 39	.174 37	.170 36	.165 34	.161 33	.157 31	.152 30	.148 29	.144 27	.139 26	.135 25	.131 24	.126 22	.122 21	.118 20
45	.211 49	.207 47	.202 45	.193 43	.194 42	.189 40	.185 38	.181 37	.176 35	.172 34	.168 32	.163 31	.159 30	.155 28	.150 27	.146 26	.142 25	.137 23	.133 22	.128 21
46	.223 50	.218 48	.214 46	.210 44	.205 43	.201 41	.196 39	.192 38	.188 36	.183 35	.179 33	.175 32	.170 31	.166 29	.162 28	.157 27	.153 26	.148 25	.144 23	.140 22
47	.234 50	.230 49	.226 47	.221 45	.217 43	.213 42	.208 40	.204 39	.200 37	.195 36	.191 34	.186 33	.182 32	.178 30	.173 29	.169 28	.165 27	.160 26	.156 24	.152 23
48	.247 51	.242 49	.238 48	.234 46	.229 44	.225 43	.220 41	.216 40	.212 38	.207 37	.203 35	.199 34	.194 33	.190 31	.186 30	.181 29	.177 28	.172 27	.168 25	.164 24
49	.259 52	.255 50	.250 48	.246 47	.242 45	.237 44	.233 42	.229 40	.224 39	.220 38	.216 36	.211 35	.207 34	.202 32	.198 31	.194 30	.189 29	.185 28	.180 26	.176 25
50	.272 53	.268 51	.264 49	.259 48	.255 46	.250 44	.246 43	.242 41	.237 40	.233 38	.228 37	.224 36	.220 34	.215 33	.211 32	.207 31	.202 30	.198 29	.193 27	.189 26
51	.286 53	.281 52	.277 50	.273 48	.268 47	.264 45	.260 44	.255 42	.251 41	.246 39	.242 38	.238 37	.233 35	.229 34	.224 33	.220 32	.216 30	.211 30	.207 28	.202 27
52	.300 54	.295 52	.291 51	.286 49	.282 47	.278 46	.273 44	.269 43	.265 41	.260 40	.256 39	.251 37	.247 36	.243 35	.238 34	.234 33	.230 31	.225 31	.221 29	.216 28
53	.314 55	.310 53	.305 51	.301 50	.296 48	.292 47	.288 45	.283 44	.279 42	.274 41	.270 40	.266 38	.261 37	.257 36	.252 34	.248 33	.244 32	.239 32	.235 30	.231 29
54	.329 55	.324 54	.320 52	.316 50	.311 49	.307 47	.303 46	.298 44	.294 43	.289 42	.285 40	.281 39	.276 38	.272 36	.267 35	.263 34	.259 33	.254 33	.250 31	.245 30
55	.344 56	.340 54	.335 53	.331 51	.327 49	.322 48	.318 46	.314 45	.309 44	.305 42	.300 41	.296 40	.292 38	.287 37	.283 36	.278 35	.274 34	.270 33	.265 32	.261 31
56	.360 56	.356 55	.351 53	.347 52	.342 50	.338 49	.334 47	.329 46	.325 44	.320 43	.316 42	.312 40	.307 39	.303 38	.298 37	.294 36	.290 35	.285 34	.281 32	.276 31
57	.376 57	.372 55	.368 54	.363 52	.359 51	.354 49	.350 48	.346 46	.341 45	.337 44	.333 42	.328 41	.324 40	.319 39	.315 38	.310 36	.306 35	.302 35	.297 33	.293 32
58	.393 58	.389 56	.384 54	.380 53	.376 51	.371 50	.367 48	.362 47	.358 46	.354 44	.349 43	.345 42	.340 41	.336 39	.332 38	.327 37	.323 36	.318 36	.314 34	.310 33
59	.411 58	.406 56	.402 55	.397 53	.393 52	.389 50	.384 49	.380 48	.375 46	.371 45	.367 44	.362 43	.358 41	.353 40	.349 39	.344 38	.340 37	.336 36	.331 35	.327 34

Continued on page 89.

B. = 19° 7.  
W. B. = 40° to 59°.  
t. = t'. 20° 0 to 29° 5.

# HUMIDITY TABLES—XIV.

Absolute and Relative Humidities.

Pressure 19" 7.

Wet bulb.	DRY BULB — WET BULB.																			
	20·0	20·5	21·0	21·5	22·0	22·5	23·0	23·5	24·0	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5
40	·078 14	·069 13	·064 12	·060 11	·056 10	·051 9	·047 8	·043 7	·038 6	·034 6	·030 6	·025 4	·021 3	·017 3	·012 2	·008 1	·004 1			
41	·082 15	·078 14	·074 13	·070 12	·065 11	·061 10	·056 9	·052 9	·048 8	·043 7	·039 6	·035 5	·030 5	·026 4	·022 3	·017 2	·013 2	·009 1	·004 1	
42	·092 17	·088 16	·084 15	·079 14	·075 13	·071 12	·066 11	·062 10	·058 9	·053 8	·049 7	·045 7	·040 6	·036 5	·032 4	·027 4	·023 3	·018 2	·014 2	·010 1
43	·103 18	·098 17	·094 16	·090 15	·085 14	·081 13	·076 12	·072 11	·068 10	·063 9	·059 9	·055 8	·050 7	·046 6	·042 6	·037 5	·033 4	·029 4	·024 3	·020 2
44	·113 19	·109 18	·104 17	·100 16	·096 15	·091 14	·087 13	·083 12	·078 11	·074 11	·070 10	·065 9	·061 8	·056 8	·052 7	·048 6	·044 6	·039 5	·035 4	·030 4
45	·124 20	·120 19	·115 18	·111 17	·107 16	·102 15	·098 14	·094 13	·089 13	·085 12	·080 11	·076 10	·072 9	·067 9	·063 8	·059 7	·054 7	·050 6	·046 5	·041 5
46	·135 21	·131 20	·127 19	·122 18	·118 17	·114 16	·109 15	·105 15	·100 14	·096 13	·092 12	·087 11	·083 11	·079 10	·074 9	·070 8	·066 8	·061 7	·057 7	·052 6
47	·147 22	·143 21	·138 20	·134 19	·130 18	·125 17	·121 17	·117 16	·112 15	·108 14	·104 13	·099 12	·095 12	·090 11	·086 10	·082 10	·077 9	·073 8	·069 8	·064 7
48	·159 23	·155 22	·151 21	·146 20	·142 19	·137 18	·133 18	·129 17	·124 16	·120 15	·116 14	·111 14	·107 13	·102 12	·098 11	·094 11	·089 10	·085 9	·081 9	·076 8
49	·172 24	·167 23	·163 22	·158 21	·154 20	·150 19	·146 19	·141 18	·137 17	·132 16	·128 15	·124 14	·119 14	·115 13	·111 12	·106 12	·102 11	·097 10	·093 10	·089 9
50	·185 25	·180 24	·176 23	·172 22	·167 21	·163 20	·158 20	·154 19	·150 18	·145 17	·141 16	·136 15	·132 15	·128 14	·123 13	·119 13	·115 12	·110 11	·106 11	·102 10
51	·198 26	·194 25	·189 24	·185 23	·181 22	·176 21	·172 20	·167 20	·163 19	·159 18	·154 17	·150 16	·146 16	·141 15	·137 14	·132 14	·128 13	·124 12	·119 12	·115 11
52	·212 27	·208 26	·203 25	·199 24	·194 23	·190 22	·186 21	·181 21	·177 20	·172 19	·168 18	·164 17	·159 17	·155 16	·151 15	·146 15	·142 14	·137 13	·133 13	·129 12
53	·226 28	·222 27	·217 26	·213 25	·209 24	·204 23	·200 22	·196 21	·191 21	·187 20	·182 19	·178 18	·174 18	·169 17	·165 16	·160 15	·156 15	·152 14	·147 13	·143 13
54	·241 29	·237 28	·232 27	·228 26	·224 25	·219 24	·215 23	·210 22	·206 22	·202 21	·197 20	·193 19	·188 18	·184 18	·180 17	·175 16	·171 16	·166 15	·162 14	·158 14
55	·256 30	·252 29	·248 28	·243 27	·239 26	·234 25	·230 24	·226 23	·221 22	·217 22	·212 21	·208 20	·204 19	·199 19	·195 18	·190 17	·186 16	·182 16	·177 15	·173 15
56	·272 30	·268 29	·263 28	·259 27	·254 27	·250 26	·246 25	·241 24	·237 23	·232 22	·228 22	·224 21	·219 20	·215 19	·210 19	·206 18	·202 17	·197 17	·193 16	·188 15
57	·288 31	·284 30	·279 29	·275 28	·271 27	·266 26	·262 26	·257 25	·253 24	·249 23	·244 22	·240 22	·235 21	·231 20	·227 19	·222 19	·218 18	·213 17	·209 17	·204 16
58	·305 32	·301 31	·296 30	·292 29	·288 28	·283 27	·279 26	·274 26	·270 25	·265 24	·261 23	·257 22	·252 22	·248 21	·243 20	·239 20	·234 19	·230 18	·226 18	·221 17
59	·322 33	·318 32	·314 31	·309 30	·305 29	·300 28	·296 27	·292 26	·287 25	·283 25	·278 24	·274 23	·270 22	·265 22	·261 21	·256 20	·252 20	·247 19	·243 18	·239 18

Continued on page 88.

# HUMIDITY TABLES—XIV.

B. = 19°.7.  
W. B. = 40° to 59°.  
t. — t'. = 30°·0 to 39°·5.

Absolute and Relative Humidities.

Pressure 19"·7.

Wet bulb.	DRY BULB—WET BULB.																			
	30·0	30·5	31·0	31·5	32·0	32·5	33·0	33·5	34·0	34·5	35·0	35·5	36·0	36·5	37·0	37·5	38·0	38·5	39·0	39·5
40																				
41																				
42	'005 1																			
43	'016 2	'011 1	'007 1	'008																
44	'026 3	'022 3	'017 2	'013 2	'009 1	'004														
45	'037 4	'032 4	'028 3	'024 3	'019 2	'015 2	'011 1	'006 1	'002											
46	'048 5	'044 5	'039 4	'035 4	'031 3	'026 3	'022 2	'018 2	'013 1	'009 1	'005									
47	'060 6	'056 6	'051 5	'047 5	'042 4	'038 4	'034 3	'029 3	'025 2	'021 2	'017 1	'012 1	'008 1	'003						
48	'072 8	'068 7	'063 6	'059 6	'054 5	'050 5	'046 4	'041 4	'037 3	'032 3	'028 2	'024 2	'019 2	'015 1	'011 1	'006	'002			
49	'084 9	'080 8	'076 7	'071 7	'067 6	'062 6	'058 5	'054 5	'049 4	'045 4	'040 4	'036 3	'032 3	'027 2	'023 2	'019 1	'014 1	'010 1	'006	'001
50	'097 9	'093 9	'088 8	'084 8	'080 7	'075 7	'071 6	'066 6	'062 5	'058 5	'053 4	'049 4	'045 4	'040 3	'036 3	'031 2	'027 2	'023 2	'018 1	'014 1
51	'110 10	'106 10	'102 9	'097 9	'093 8	'088 8	'084 7	'080 7	'075 6	'071 6	'067 5	'062 5	'058 5	'054 4	'049 4	'045 3	'040 3	'036 3	'032 2	'027 2
52	'124 11	'120 11	'116 10	'111 10	'107 9	'102 9	'098 8	'094 8	'089 7	'085 7	'080 6	'076 6	'072 5	'067 5	'063 5	'058 4	'054 4	'050 3	'045 3	'041 3
53	'138 12	'134 12	'130 11	'125 11	'121 10	'116 10	'112 9	'108 9	'103 8	'099 8	'094 7	'090 7	'086 6	'081 6	'077 5	'073 5	'068 5	'064 4	'059 4	'055 4
54	'153 13	'149 13	'144 12	'140 11	'136 11	'131 10	'127 10	'122 9	'118 9	'114 8	'109 8	'105 8	'100 7	'096 7	'092 6	'087 6	'083 6	'078 5	'074 5	'070 4
55	'168 14	'164 13	'160 13	'155 12	'151 12	'146 11	'142 11	'138 10	'133 10	'129 9	'124 9	'120 8	'116 8	'111 8	'107 7	'102 7	'098 6	'094 6	'089 6	'085 5
56	'184 15	'180 14	'175 14	'171 13	'166 13	'162 12	'158 12	'153 11	'149 11	'144 10	'140 10	'136 9	'131 9	'127 8	'122 8	'118 8	'114 7	'109 7	'105 6	'100 6
57	'200 16	'196 15	'191 14	'187 14	'183 13	'178 13	'174 12	'169 12	'165 11	'160 11	'156 10	'152 10	'147 10	'143 9	'139 9	'134 8	'130 8	'125 8	'121 7	'117 7
58	'217 16	'212 16	'208 15	'204 15	'199 14	'195 14	'190 13	'186 13	'182 12	'177 12	'173 11	'168 11	'164 10	'160 10	'155 9	'151 9	'146 9	'142 8	'138 8	'133 8
59	'234 17	'230 17	'225 16	'221 15	'217 15	'212 14	'208 14	'203 13	'199 13	'194 12	'190 12	'186 11	'181 11	'177 11	'172 10	'168 10	'164 9	'159 9	'155 9	'150 8

Continued on page 89.

B. = 19°-7.  
W. B. = 60° to 69°.  
t. - t'. = 0 to 9°-5.

# HUMIDITY TABLES—XIV.

Absolute and Relative Humidities.

Pressure 19°-7.

Wet bulb.	DRY BULB — WET BULB.																			
	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
60	.517 100	.513 97	.508 95	.504 92	.499 90	.495 88	.490 85	.486 83	.482 81	.477 79	.473 77	.468 75	.464 73	.460 71	.455 69	.451 67	.446 65	.442 64	.438 62	.433 60
61	.536 100	.531 97	.527 95	.522 93	.518 90	.514 88	.509 86	.505 83	.500 81	.496 79	.492 77	.487 75	.483 73	.478 71	.474 69	.469 67	.465 66	.460 64	.456 62	.452 61
62	.555 100	.550 97	.546 95	.542 93	.537 90	.533 88	.528 86	.524 84	.520 81	.515 79	.511 77	.506 75	.502 73	.497 72	.493 70	.488 68	.484 66	.480 64	.475 63	.471 61
63	.575 100	.570 98	.566 95	.562 93	.557 90	.553 88	.548 86	.544 84	.539 82	.535 80	.530 78	.526 76	.522 74	.517 72	.513 70	.508 68	.504 67	.500 65	.495 63	.491 62
64	.595 100	.591 98	.586 95	.582 93	.578 90	.573 88	.569 86	.564 84	.560 82	.555 80	.551 78	.546 76	.542 74	.538 72	.533 70	.529 69	.524 67	.520 65	.515 64	.511 62
65	.616 100	.612 98	.607 95	.603 93	.598 91	.594 89	.590 86	.585 84	.581 82	.576 80	.572 78	.568 76	.563 74	.559 73	.554 71	.550 69	.545 67	.541 66	.536 64	.532 62
66	.638 100	.634 98	.629 95	.625 93	.620 91	.616 89	.611 86	.607 85	.602 82	.598 80	.594 78	.589 76	.585 75	.580 73	.576 71	.571 69	.567 68	.563 66	.558 64	.554 63
67	.660 100	.656 98	.652 95	.647 93	.643 91	.638 89	.634 87	.629 85	.625 83	.620 81	.616 79	.612 77	.607 75	.603 73	.598 71	.594 70	.589 68	.585 67	.580 65	.576 63
68	.684 100	.679 98	.675 95	.670 93	.666 91	.661 89	.657 87	.652 85	.648 83	.644 81	.639 79	.635 77	.630 75	.626 73	.621 72	.617 70	.612 68	.608 67	.604 65	.599 64
69	.707 100	.703 98	.698 95	.694 93	.690 91	.685 89	.681 87	.676 85	.672 83	.667 81	.663 79	.658 77	.654 75	.650 74	.645 72	.641 70	.636 69	.632 67	.627 66	.623 64

B. = 19°-7.  
W. B. = 60° to 69°.  
t. - t'. = 20°-0 to 29°-5.

Wet bulb.	DRY BULB — WET BULB.																			
	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5
60	.340 33	.336 32	.331 31	.327 30	.323 30	.318 29	.314 28	.309 27	.305 26	.300 25	.296 25	.292 24	.287 23	.283 22	.278 22	.274 21	.270 20	.265 20	.261 19	.256 18
61	.359 34	.354 33	.350 32	.346 31	.341 30	.337 29	.332 28	.328 27	.323 26	.319 26	.315 25	.310 25	.306 24	.301 23	.297 22	.292 22	.288 21	.284 20	.279 20	.275 19
62	.378 35	.373 34	.369 33	.364 32	.360 31	.356 30	.351 29	.347 28	.342 28	.338 27	.334 26	.329 25	.325 25	.320 24	.316 23	.311 22	.307 22	.303 21	.298 21	.294 20
63	.398 35	.393 34	.389 33	.384 32	.380 32	.375 31	.371 30	.366 29	.362 28	.358 27	.353 27	.349 26	.344 25	.340 24	.336 24	.331 23	.327 22	.322 22	.318 21	.313 21
64	.418 36	.413 35	.409 34	.404 33	.400 32	.396 31	.391 31	.387 30	.382 29	.378 28	.373 27	.369 27	.364 26	.360 25	.356 24	.351 24	.347 23	.342 22	.338 22	.334 21
65	.439 37	.434 36	.430 35	.425 34	.421 33	.416 32	.412 31	.408 30	.403 30	.399 29	.394 28	.390 27	.385 27	.381 26	.376 25	.372 24	.368 24	.363 23	.359 22	.354 22
66	.460 37	.456 36	.452 35	.447 34	.443 33	.438 33	.434 32	.429 31	.425 30	.420 29	.416 29	.412 28	.407 27	.403 26	.398 26	.394 25	.389 24	.385 24	.380 23	.376 22
67	.483 38	.478 37	.474 36	.469 35	.465 34	.460 33	.456 32	.451 32	.447 31	.442 30	.438 29	.434 28	.429 28	.425 27	.420 26	.416 26	.411 25	.407 24	.402 24	.398 23
68	.506 38	.501 37	.497 36	.492 35	.488 35	.483 34	.479 33	.474 32	.470 31	.466 31	.461 30	.456 29	.452 28	.448 28	.443 27	.439 26	.434 26	.430 25	.425 24	.421 24
69	.529 39	.525 38	.520 37	.516 36	.511 35	.507 34	.502 34	.498 33	.494 32	.489 31	.485 30	.480 30	.476 29	.471 28	.467 28	.462 27	.458 26	.453 26	.449 25	.444 24



# HUMIDITY TABLES—XIV.

B.—19°7.  
W. B.—60° to 69°.  
t.—t'.=10°0 to 19°5.

Absolute and Relative Humidities.

Pressure 19°7.

Wet bulb.	DRY BULB — WET BULB.																			
	10·0	10·5	11·0	11·5	12·0	12·5	13·0	13·5	14·0	14·5	15·0	15·5	16·0	16·5	17·0	17·5	18·0	18·5	19·0	19·5
60	·429 59	·424 57	·420 55	·415 54	·411 52	·406 51	·402 50	·398 48	·393 47	·389 46	·384 44	·380 43	·376 42	·371 41	·367 40	·362 38	·358 37	·354 36	·349 35	·345 34
61	·447 59	·443 58	·438 56	·434 55	·430 53	·425 52	·421 50	·416 49	·412 47	·408 46	·403 45	·399 44	·394 43	·390 41	·385 40	·381 39	·376 38	·372 37	·368 36	·363 35
62	·466 60	·462 58	·458 56	·453 55	·449 54	·444 52	·440 51	·435 49	·431 48	·426 47	·422 46	·418 44	·414 43	·409 42	·404 41	·400 40	·396 39	·391 38	·387 37	·382 36
63	·486 60	·482 58	·477 57	·473 56	·468 54	·464 53	·460 51	·455 50	·451 49	·446 47	·442 46	·437 45	·433 44	·429 43	·424 41	·420 40	·415 39	·411 38	·406 37	·402 36
64	·506 60	·502 59	·498 57	·493 56	·489 55	·484 53	·480 52	·475 50	·471 49	·467 48	·462 47	·458 46	·453 44	·449 43	·444 42	·440 41	·436 40	·431 39	·427 38	·422 37
65	·528 61	·523 59	·519 58	·514 57	·510 55	·505 54	·501 52	·496 51	·492 50	·488 48	·483 47	·479 46	·474 45	·470 44	·465 43	·461 42	·456 41	·452 39	·448 38	·443 37
66	·549 61	·545 60	·540 58	·536 57	·531 56	·527 54	·523 53	·518 52	·514 50	·509 49	·505 48	·500 47	·496 46	·491 44	·487 43	·483 42	·478 41	·474 40	·469 39	·465 38
67	·572 62	·567 60	·563 59	·558 58	·554 56	·549 55	·545 53	·540 52	·536 51	·532 50	·527 48	·523 47	·518 46	·514 44	·509 43	·505 42	·500 41	·496 40	·492 39	·487 38
68	·595 62	·590 61	·586 59	·581 58	·577 56	·572 55	·568 54	·563 53	·559 51	·554 50	·550 49	·546 48	·541 47	·537 46	·532 44	·528 43	·523 42	·519 41	·514 40	·510 39
69	·618 63	·614 61	·609 60	·605 59	·600 57	·596 56	·592 54	·587 53	·583 52	·578 50	·574 49	·569 48	·565 47	·560 46	·556 45	·551 44	·547 43	·542 42	·538 41	·534 40

B.—19°7.  
W. B.—60° to 69°.  
t.—t'.=30°0 to 39°5.

Wet bulb.	DRY BULB — WET BULB.																			
	30·0	30·5	31·0	31·5	32·0	32·5	33·0	33·5	34·0	34·5	35·0	35·5	36·0	36·5	37·0	37·5	38·0	38·5	39·0	39·5
60	·252 18	·247 17	·243 17	·239 16	·234 16	·230 15	·225 15	·221 14	·217 14	·212 13	·208 13	·203 12	·199 12	·194 11	·190 11	·186 11	·181 10	·177 10	·172 9	·168 9
61	·270 19	·266 18	·262 17	·257 17	·253 16	·248 16	·244 15	·239 15	·235 14	·231 14	·226 13	·221 13	·217 12	·213 12	·208 12	·204 11	·200 11	·195 10	·191 10	·186 10
62	·289 19	·285 19	·280 18	·276 18	·272 17	·267 16	·263 16	·258 16	·254 15	·249 14	·245 14	·240 14	·236 13	·232 13	·227 12	·223 12	·218 11	·214 11	·210 11	·205 10
63	·309 20	·305 19	·300 19	·296 18	·291 18	·287 17	·282 17	·278 16	·274 16	·269 15	·265 15	·260 14	·256 14	·251 13	·247 13	·243 12	·238 12	·234 12	·229 11	·225 11
64	·329 21	·325 20	·320 19	·316 19	·311 18	·307 18	·302 17	·298 17	·294 17	·289 16	·285 15	·280 15	·276 14	·271 14	·267 14	·262 13	·258 13	·254 12	·249 12	·245 12
65	·350 21	·346 21	·341 20	·337 20	·332 19	·328 19	·323 18	·319 18	·314 17	·310 16	·306 16	·301 15	·297 15	·292 15	·288 14	·283 14	·279 13	·274 13	·270 12	·266 12
66	·372 22	·367 21	·362 21	·358 20	·354 20	·349 19	·345 19	·340 18	·336 18	·331 17	·327 17	·322 16	·318 16	·314 15	·309 15	·305 14	·300 14	·296 14	·291 13	·287 13
67	·394 22	·389 22	·385 21	·380 21	·376 20	·371 20	·367 19	·362 19	·358 18	·354 18	·349 17	·345 17	·340 16	·336 16	·331 15	·327 15	·322 14	·318 14	·314 14	·309 13
68	·417 23	·412 22	·408 22	·403 21	·399 21	·394 20	·390 20	·385 19	·381 19	·376 18	·372 18	·368 17	·363 17	·359 16	·354 16	·350 15	·345 15	·341 15	·336 14	·332 14
69	·440 24	·436 23	·431 23	·427 22	·422 21	·418 21	·413 20	·409 20	·404 19	·400 19	·396 18	·391 18	·387 17	·382 17	·378 16	·373 16	·369 16	·364 15	·360 15	·355 14

# TEMPERATURE TABLES—XV.

Fahrenheit Scale to Centigrade.

Fahrenheit.	0	1	2	3	4	5	6	7	8	9
	C.	C.	C.	C.	C.	C.	C.	C.	C.	C.
+130°	+54.44	+54.50	+54.56	+54.61	+54.67	+54.72	+54.78	+54.83	+54.89	+54.94
129	53.89	53.94	54.00	54.06	54.11	54.17	54.22	54.28	54.33	54.39
128	53.33	53.39	53.44	53.50	53.56	53.61	53.67	53.72	53.78	53.83
127	52.78	52.83	52.89	52.94	53.00	53.06	53.11	53.17	53.22	53.28
126	52.22	52.28	52.33	52.39	52.44	52.50	52.56	52.61	52.67	52.72
+125	+51.67	+51.72	+51.78	+51.83	+51.89	+51.94	+52.00	+52.06	+52.11	+52.17
124	51.11	51.17	51.22	51.28	51.33	51.39	51.44	51.50	51.56	51.61
123	50.56	50.61	50.67	50.72	50.78	50.83	50.89	50.94	51.00	51.06
122	50.00	50.06	50.11	50.17	50.22	50.28	50.33	50.39	50.44	50.50
121	49.44	49.50	49.56	49.61	49.67	49.72	49.78	49.83	49.89	49.94
+120	+48.89	+48.94	+49.00	+49.06	+49.11	+49.17	+49.22	+49.28	+49.33	+49.39
119	48.33	48.39	48.44	48.50	48.56	48.61	48.67	48.72	48.78	48.83
118	47.78	47.83	47.89	47.94	48.00	48.06	48.11	48.17	48.22	48.28
117	47.22	47.28	47.33	47.39	47.44	47.50	47.56	47.61	47.67	47.72
116	46.67	46.72	46.78	46.83	46.89	46.94	47.00	47.06	47.11	47.17
+115	+46.11	+46.17	+46.22	+46.28	+46.33	+46.39	+46.44	+46.50	+46.56	+46.61
114	45.56	45.61	45.67	45.72	45.78	45.83	45.89	45.94	46.00	46.06
113	45.00	45.06	45.11	45.17	45.22	45.28	45.33	45.39	45.44	45.50
112	44.44	44.50	44.56	44.61	44.67	44.72	44.78	44.83	44.89	44.94
111	43.89	43.94	44.00	44.06	44.11	44.17	44.22	44.28	44.33	44.39
+110	+43.33	+43.39	+43.44	+43.50	+43.56	+43.61	+43.67	+43.72	+43.78	+43.83
109	42.78	42.83	42.89	42.94	43.00	43.06	43.11	43.17	43.22	43.28
108	42.22	42.28	42.33	42.39	42.44	42.50	42.56	42.61	42.67	42.72
107	41.67	41.72	41.78	41.83	41.89	41.94	42.00	42.06	42.11	42.17
106	41.11	41.17	41.22	41.28	41.33	41.39	41.44	41.50	41.56	41.61
+105	+40.56	+40.61	+40.67	+40.72	+40.78	+40.83	+40.89	+40.94	+41.00	+41.06
104	40.00	40.06	40.11	40.17	40.22	40.28	40.33	40.39	40.44	40.50
103	39.44	39.50	39.56	39.61	39.67	39.72	39.78	39.83	39.89	39.94
102	38.89	38.94	39.00	39.06	39.11	39.17	39.22	39.28	39.33	39.39
101	38.33	38.39	38.44	38.50	38.56	38.61	38.67	38.72	38.78	38.83
+100	+37.78	+37.83	+37.89	+37.94	+38.00	+38.06	+38.11	+38.17	+38.22	+38.28
99	37.22	37.28	37.33	37.39	37.44	37.50	37.56	37.61	37.67	37.72
98	36.67	36.72	36.78	36.83	36.89	36.94	37.00	37.06	37.11	37.17
97	36.11	36.17	36.22	36.28	36.33	36.39	36.44	36.50	36.56	36.61
96	35.56	35.61	35.67	35.72	35.78	35.83	35.89	35.94	36.00	36.06
+95	+35.00	+35.06	+35.11	+35.17	+35.22	+35.28	+35.33	+35.39	+35.44	+35.50
94	34.44	34.50	34.56	34.61	34.67	34.72	34.78	34.83	34.89	34.94
93	33.89	33.94	34.00	34.06	34.11	34.17	34.22	34.28	34.33	34.39
92	33.33	33.39	33.44	33.50	33.56	33.61	33.67	33.72	33.78	33.83
91	32.78	32.83	32.89	32.94	33.00	33.06	33.11	33.17	33.22	33.28
	0	1	2	3	4	5	6	7	8	9

# TEMPERATURE TABLES—XV.

Fahrenheit Scale to Centigrade.

Fahrenheit.	°0	°1	°2	°3	°4	°5	°6	°7	°8	°9
	C.	C.	C.	C.	C.	C.	C.	C.	C.	C.
+90°	+32.22	+32.28	+32.33	+32.39	+32.44	+32.50	+32.56	+32.61	+32.67	+32.72
89	31.67	31.72	31.78	31.83	31.89	31.94	32.00	32.06	32.11	32.17
88	31.11	31.17	31.22	31.28	31.33	31.39	31.44	31.50	31.56	31.61
87	30.56	30.61	30.67	30.72	30.78	30.83	30.89	30.94	31.00	31.06
86	30.00	30.06	30.11	30.17	30.22	30.28	30.33	30.39	30.44	30.50
+85	+29.44	+29.50	+29.56	+29.61	+29.67	+29.72	+29.78	+29.83	+29.89	+29.94
84	28.89	28.94	29.00	29.06	29.11	29.17	29.22	29.28	29.33	29.39
83	28.33	28.39	28.44	28.50	28.56	28.61	28.67	28.72	28.78	28.83
82	27.78	27.83	27.89	27.94	28.00	28.06	28.11	28.17	28.22	28.28
81	27.22	27.28	27.33	27.39	27.44	27.50	27.56	27.61	27.67	27.72
+80	+26.67	+26.72	+26.78	+26.83	+26.89	+26.94	+27.00	+27.06	+27.11	+27.17
79	26.11	26.17	26.22	26.28	26.33	26.39	26.44	26.50	26.56	26.61
78	25.56	25.61	25.67	25.72	25.78	25.83	25.89	25.94	26.00	26.06
77	25.00	25.06	25.11	25.17	25.22	25.28	25.33	25.39	25.44	25.50
76	24.44	24.50	24.56	24.61	24.67	24.72	24.78	24.83	24.89	24.94
+75	+23.89	+23.94	+24.00	+24.06	+24.11	+24.17	+24.22	+24.28	+24.33	+24.39
74	23.33	23.39	23.44	23.50	23.56	23.61	23.67	23.72	23.78	23.83
73	22.78	22.83	22.89	22.94	23.00	23.06	23.11	23.17	23.22	23.28
72	22.22	22.28	22.33	22.39	22.44	22.50	22.56	22.61	22.67	22.72
71	21.67	21.72	21.78	21.83	21.89	21.94	22.00	22.06	22.11	22.17
+70	+21.11	+21.17	+21.22	+21.28	+21.33	+21.39	+21.44	+21.50	+21.56	+21.61
69	20.56	20.61	20.67	20.72	20.78	20.83	20.89	20.94	21.00	21.06
68	20.00	20.06	20.11	20.17	20.22	20.28	20.33	20.39	20.44	20.50
67	19.44	19.50	19.56	19.61	19.67	19.72	19.78	19.83	19.89	19.94
66	18.89	18.94	19.00	19.06	19.11	19.17	19.22	19.28	19.33	19.39
+65	+18.33	+18.39	+18.44	+18.50	+18.56	+18.61	+18.67	+18.72	+18.78	+18.83
64	17.78	17.83	17.89	17.94	18.00	18.06	18.11	18.17	18.22	18.28
63	17.22	17.28	17.33	17.39	17.44	17.50	17.56	17.61	17.67	17.72
62	16.67	16.72	16.78	16.83	16.89	16.94	17.00	17.06	17.11	17.17
61	16.11	16.17	16.22	16.28	16.33	16.39	16.44	16.50	16.56	16.61
+60	+15.56	+15.61	+15.67	+15.72	+15.78	+15.83	+15.89	+15.94	+16.00	+16.06
59	15.00	15.06	15.11	15.17	15.22	15.28	15.33	15.39	15.44	15.50
58	14.44	14.50	14.56	14.61	14.67	14.72	14.78	14.83	14.89	14.94
57	13.89	13.94	14.00	14.06	14.11	14.17	14.22	14.28	14.33	14.39
56	13.33	13.39	13.44	13.50	13.56	13.61	13.67	13.72	13.78	13.83
+55	+12.78	+12.83	+12.89	+12.94	+13.00	+13.06	+13.11	+13.17	+13.22	+13.28
54	12.22	12.28	12.33	12.39	12.44	12.50	12.56	12.61	12.67	12.72
53	11.67	11.72	11.78	11.83	11.89	11.94	12.00	12.06	12.11	12.17
52	11.11	11.17	11.22	11.28	11.33	11.39	11.44	11.50	11.56	11.61
51	10.56	10.61	10.67	10.72	10.78	10.83	10.89	10.94	11.00	11.06
	°0	°1	°2	°3	°4	°5	°6	°7	°8	°9

# TEMPERATURE TABLES—XV.

Fahrenheit Scale to Centigrade.

Fahrenheit.	°0	°1	°2	°3	°4	°5	°6	°7	°8	°9
	C.	C.	C.	C.	C.	C.	C.	C.	C.	C.
+50°	+10·00	+10·06	+10·11	+10·17	+10·22	+10·28	+10·33	+10·39	+10·44	+10·50
49	0·44	0·50	0·56	0·61	0·67	0·72	0·78	0·83	0·89	0·94
48	0·89	0·94	0·00	0·06	0·11	0·17	0·22	0·28	0·33	0·39
47	0·33	0·39	0·44	0·50	0·56	0·61	0·67	0·72	0·78	0·83
46	0·78	0·83	0·89	0·94	0·00	0·06	0·11	0·17	0·22	0·28
+45	+7·22	+7·28	+7·33	+7·39	+7·44	+7·50	+7·56	+7·61	+7·67	+7·72
44	6·67	6·72	6·78	6·83	6·89	6·94	7·00	7·06	7·11	7·17
43	6·11	6·17	6·22	6·28	6·33	6·39	6·44	6·50	6·56	6·61
42	5·56	5·61	5·67	5·72	5·78	5·83	5·89	5·94	6·00	6·06
41	5·00	5·06	5·11	5·17	5·22	5·28	5·33	5·39	5·44	5·50
+40	+4·44	+4·50	+4·56	+4·61	+4·67	+4·72	+4·78	+4·83	+4·89	+4·94
39	3·89	3·94	4·00	4·06	4·11	4·17	4·22	4·28	4·33	4·39
38	3·33	3·39	3·44	3·50	3·56	3·61	3·67	3·72	3·78	3·83
37	2·78	2·83	2·89	2·94	3·00	3·06	3·11	3·17	3·22	3·28
36	2·22	2·28	2·33	2·39	2·44	2·50	2·56	2·61	2·67	2·72
+35	+1·67	+1·72	+1·78	+1·83	+1·89	+1·94	+2·00	+2·06	+2·11	+2·17
34	1·11	1·17	1·22	1·28	1·33	1·39	1·44	1·50	1·56	1·61
33	0·56	0·61	0·67	0·72	0·78	0·83	0·89	0·94	1·00	1·06
32	0·00	+0·06	+0·11	+0·17	+0·22	+0·28	+0·33	+0·39	+0·44	+0·50
31	—0·56	—0·50	—0·44	—0·39	—0·33	—0·28	—0·22	—0·17	—0·11	—0·06
+30	—1·11	—1·06	—1·00	—0·94	—0·89	—0·83	—0·78	—0·72	—0·67	—0·61
29	1·67	1·61	1·56	1·50	1·44	1·39	1·33	1·28	1·22	1·17
28	2·22	2·17	2·11	2·06	2·00	1·94	1·89	1·83	1·78	1·72
27	2·78	2·72	2·67	2·61	2·56	2·50	2·44	2·39	2·33	2·28
26	3·33	3·28	3·22	3·17	3·11	3·06	3·00	2·94	2·89	2·83
+25	—3·89	—3·83	—3·78	—3·72	—3·67	—3·61	—3·56	—3·50	—3·44	—3·39
24	4·44	4·39	4·33	4·28	4·22	4·17	4·11	4·06	4·00	3·94
23	5·00	4·94	4·89	4·83	4·78	4·72	4·67	4·61	4·56	4·50
22	5·56	5·50	5·44	5·39	5·33	5·28	5·22	5·17	5·11	5·06
21	6·11	6·06	6·00	5·94	5·89	5·83	5·78	5·72	5·67	5·61
+20	—6·67	—6·61	—6·56	—6·50	—6·44	—6·39	—6·33	—6·28	—6·22	—6·17
19	7·22	7·17	7·11	7·06	7·00	6·94	6·89	6·83	6·78	6·72
18	7·78	7·72	7·67	7·61	7·56	7·50	7·44	7·39	7·33	7·28
17	8·33	8·28	8·22	8·17	8·11	8·06	8·00	7·94	7·89	7·83
16	8·89	8·83	8·78	8·72	8·67	8·61	8·56	8·50	8·44	8·39
+15	—9·44	—9·39	—9·33	—9·28	—9·22	—9·17	—9·11	—9·06	—9·00	—8·94
14	10·00	9·94	9·89	9·83	9·78	9·72	9·67	9·61	9·56	9·50
13	10·56	10·50	10·44	10·39	10·33	10·28	10·22	10·17	10·11	10·06
12	11·11	11·06	11·00	10·94	10·89	10·83	10·78	10·72	10·67	10·61
11	11·67	11·61	11·56	11·50	11·44	11·39	11·33	11·28	11·22	11·17
	°0	°1	°2	°3	°4	°5	°6	°7	°8	°9

# TEMPERATURE TABLES—XV.

Fahrenheit Scale to Centigrade.

Fahrenheit.	0	1	2	3	4	5	6	7	8	9
	C.	C.	C.	C.	C.	C.	C.	C.	C.	C.
+10°	—12·22	—12·17	—12·11	—12·06	—12·00	—11·94	—11·89	—11·83	—11·78	—11·72
9	12·78	12·72	12·67	12·61	12·56	12·50	12·44	12·39	12·33	12·28
8	13·33	13·28	13·22	13·17	13·11	13·06	13·00	12·94	12·89	12·83
7	13·89	13·83	13·78	13·72	13·67	13·61	13·56	13·50	13·44	13·39
6	14·44	14·39	14·33	14·28	14·22	14·17	14·11	14·06	14·00	13·94
+5	—15·00	—14·94	—14·89	—14·83	—14·78	—14·72	—14·67	—14·61	—14·56	—14·50
4	15·56	15·50	15·44	15·39	15·33	15·28	15·22	15·17	15·11	15·06
3	16·11	16·06	16·00	15·94	15·89	15·83	15·78	15·72	15·67	15·61
2	16·67	16·61	16·56	16·50	16·44	16·39	16·33	16·28	16·22	16·17
1	17·22	17·17	17·11	17·06	17·00	16·94	16·89	16·83	16·78	16·72
+0	17·78	17·72	17·67	17·61	17·56	17·50	17·44	17·39	17·33	17·28
— 0	—17·78	—17·83	—17·89	—17·94	—18·00	—18·06	—18·11	—18·17	—18·22	—18·28
1	18·33	18·39	18·44	18·50	18·56	18·61	18·67	18·72	18·78	18·83
2	18·89	18·94	19·00	19·06	19·11	19·17	19·22	19·28	19·33	19·39
3	19·44	19·50	19·56	19·61	19·67	19·72	19·78	19·83	19·89	19·94
4	20·00	20·06	20·11	20·17	20·22	20·28	20·33	20·39	20·44	20·50
— 5	—20·56	—20·61	—20·67	—20·72	—20·78	—20·83	—20·89	—20·94	—21·00	—21·06
6	21·11	21·17	21·22	21·28	21·33	21·39	21·44	21·50	21·56	21·61
7	21·67	21·72	21·78	21·83	21·89	21·94	22·00	22·06	22·11	22·17
8	22·22	22·28	22·33	22·39	22·44	22·50	22·56	22·61	22·67	22·72
9	22·78	22·83	22·89	22·94	23·00	23·06	23·11	23·17	23·22	23·28
—10	—23·33	—23·39	—23·44	—23·50	—23·56	—23·61	—23·67	—23·72	—23·78	—23·83
11	23·89	23·94	24·00	24·06	24·11	24·17	24·22	24·28	24·33	24·39
12	24·44	24·50	24·56	24·61	24·67	24·72	24·78	24·83	24·89	24·94
13	25·00	25·06	25·11	25·17	25·22	25·28	25·33	25·39	25·44	25·50
14	25·56	25·61	25·67	25·72	25·78	25·83	25·89	25·94	26·00	26·06
—15	—26·11	—26·17	—26·22	—26·28	—26·33	—26·39	—26·44	—26·50	—26·56	—26·61
16	26·67	26·72	26·78	26·83	26·89	26·94	27·00	27·06	27·11	27·17
17	27·22	27·28	27·33	27·39	27·44	27·50	27·56	27·61	27·67	27·72
18	27·78	27·83	27·89	27·94	28·00	28·06	28·11	28·17	28·22	28·28
19	28·33	28·39	28·44	28·50	28·56	28·61	28·67	28·72	28·78	28·83
—20	—28·89	—28·94	—29·00	—29·06	—29·11	—29·17	—29·22	—29·28	—29·33	—29·39
21	29·44	29·50	29·56	29·61	29·67	29·72	29·78	29·83	29·89	29·94
22	30·00	30·06	30·11	30·17	30·22	30·28	30·33	30·39	30·44	30·50
23	30·56	30·61	30·67	30·72	30·78	30·83	30·89	30·94	31·00	31·06
24	31·11	31·17	31·22	31·28	31·33	31·39	31·44	31·50	31·56	31·61
—25	—31·67	—31·72	—31·78	—31·83	—31·89	—31·94	—32·00	—32·06	—32·11	—32·17
26	32·22	32·28	32·33	32·39	32·44	32·50	32·56	32·61	32·67	32·72
27	32·78	32·83	32·89	32·94	33·00	33·06	33·11	33·17	33·22	33·28
28	33·33	33·39	33·44	33·50	33·56	33·61	33·67	33·72	33·78	33·83
—29	—33·89	—33·94	—34·00	—34·06	—34·11	—34·17	—34·22	—34·28	—34·33	—34·39
	0	1	2	3	4	5	6	7	8	9

# TEMPERATURE TABLES—XVI.

Centigrade Scale to Fahrenheit.

Centigrade.	°0	°1	°2	°3	°4	°5	°6	°7	°8	°9
+50°	F. +122°00	F. +122°18	F. +122°36	F. +122°54	F. +122°72	F. +122°90	F. +123°08	F. +123°26	F. +123°44	F. +123°62
49	120°20	120°38	120°56	120°74	120°92	121°10	121°28	121°46	121°64	121°82
48	118°40	118°58	118°76	118°94	119°12	119°30	119°48	119°66	119°84	120°02
47	116°60	116°78	116°96	117°14	117°32	117°50	117°68	117°86	118°04	118°22
46	114°80	114°98	115°16	115°34	115°52	115°70	115°88	116°06	116°24	116°42
+45	+113°00	+113°18	+113°36	+113°54	+113°72	+113°90	+114°08	+114°26	+114°44	+114°62
44	111°20	111°38	111°56	111°74	111°92	112°10	112°28	112°46	112°64	112°82
43	109°40	109°58	109°76	109°94	110°12	110°30	110°48	110°66	110°84	111°02
42	107°60	107°78	107°96	108°14	108°32	108°50	108°68	108°86	109°04	109°22
41	105°80	105°98	106°16	106°34	106°52	106°70	106°88	107°06	107°24	107°42
+40	+104°00	+104°18	+104°36	+104°54	+104°72	+104°90	+105°08	+105°26	+105°44	+105°62
39	102°20	102°38	102°56	102°74	102°92	103°10	103°28	103°46	103°64	103°82
38	100°40	100°58	100°76	100°94	101°12	101°30	101°48	101°66	101°84	102°02
37	98°60	98°78	98°96	99°14	99°32	99°50	99°68	99°86	100°04	100°22
36	96°80	96°98	97°16	97°34	97°52	97°70	97°88	98°06	98°24	98°42
+35	+95°00	+95°18	+95°36	+95°54	+95°72	+95°90	+96°08	+96°26	+96°44	+96°62
34	93°20	93°38	93°56	93°74	93°92	94°10	94°28	94°46	94°64	94°82
33	91°40	91°58	91°76	91°94	92°12	92°30	92°48	92°66	92°84	93°02
32	89°60	89°78	89°96	90°14	90°32	90°50	90°68	90°86	91°04	91°22
31	87°80	87°98	88°16	88°34	88°52	88°70	88°88	89°06	89°24	89°42
+30	+86°00	+86°18	+86°36	+86°54	+86°72	+86°90	+87°08	+87°26	+87°44	+87°62
29	84°20	84°38	84°56	84°74	84°92	85°10	85°28	85°46	85°64	85°82
28	82°40	82°58	82°76	82°94	83°12	83°30	83°48	83°66	83°84	84°02
27	80°60	80°78	80°96	81°14	81°32	81°50	81°68	81°86	82°04	82°22
26	78°80	78°98	79°16	79°34	79°52	79°70	79°88	80°06	80°24	80°42
+25	+77°00	+77°18	+77°36	+77°54	+77°72	+77°90	+78°08	+78°26	+78°44	+78°62
24	75°20	75°38	75°56	75°74	75°92	76°10	76°28	76°46	76°64	76°82
23	73°40	73°58	73°76	73°94	74°12	74°30	74°48	74°66	74°84	75°02
22	71°60	71°78	71°96	72°14	72°32	72°50	72°68	72°86	73°04	73°22
21	69°80	69°98	70°16	70°34	70°52	70°70	70°88	71°06	71°24	71°42
+20	+68°00	+68°18	+68°36	+68°54	+68°72	+68°90	+69°08	+69°26	+69°44	+69°62
19	66°20	66°38	66°56	66°74	66°92	67°10	67°28	67°46	67°64	67°82
18	64°40	64°58	64°76	64°94	65°12	65°30	65°48	65°66	65°84	66°02
17	62°60	62°78	62°96	63°14	63°32	63°50	63°68	63°86	64°04	64°22
16	60°80	60°98	61°16	61°34	61°52	61°70	61°88	62°06	62°24	62°42
+15	+59°00	+59°18	+59°36	+59°54	+59°72	+59°90	+60°08	+60°26	+60°44	+60°62
14	57°20	57°38	57°56	57°74	57°92	58°10	58°28	58°46	58°64	58°82
13	55°40	55°58	55°76	55°94	56°12	56°30	56°48	56°66	56°84	57°02
12	53°60	53°78	53°96	54°14	54°32	54°50	54°68	54°86	55°04	55°22
11	51°80	51°98	52°16	52°34	52°52	52°70	52°88	53°06	53°24	53°42
	°0	°1	°2	°3	°4	°5	°6	°7	°8	°9

# TEMPERATURE TABLES—XVI.

Centigrade Scale to Fahrenheit.

Centigrade.	°0	°1	°2	°3	°4	°5	°6	°7	°8	°9
+10°	F. +50°00	F. +50°18	F. +50°36	F. +50°54	F. +50°72	F. +50°90	F. +51°08	F. +51°26	F. +51°44	F. +51°62
9	48°20	48°38	48°56	48°74	48°92	49°10	49°28	49°46	49°64	49°82
8	46°40	46°58	46°76	46°94	47°12	47°30	47°48	47°66	47°84	48°02
7	44°60	44°78	44°96	45°14	45°32	45°50	45°68	45°86	46°04	46°22
6	42°80	42°08	43°16	43°34	43°52	43°70	43°88	44°06	44°24	44°42
+5	+41°00	+41°18	+41°36	+41°54	+41°72	+41°90	+42°08	+42°26	+42°44	+42°62
4	39°20	39°38	39°56	39°74	39°92	40°10	40°28	40°46	40°64	40°82
3	37°40	37°58	37°76	37°94	38°12	38°30	38°48	38°66	38°84	39°02
2	35°60	35°78	35°96	36°14	36°32	36°50	36°68	36°86	37°04	37°22
1	33°80	33°98	34°16	34°34	34°52	34°70	34°88	35°06	35°24	35°42
+0	+32°00	+32°18	+32°36	+32°54	+32°72	+32°90	+33°08	+33°26	+33°44	+33°62
—0	+32°00	+31°82	+31°64	+31°46	+31°28	+31°10	+30°92	+30°74	+30°56	+30°38
1	30°20	30°02	29°84	29°66	29°48	29°30	29°12	28°94	28°76	28°58
2	28°40	28°22	28°04	27°86	27°68	27°50	27°32	27°14	26°96	26°78
3	26°60	26°42	26°24	26°06	25°88	25°70	25°52	25°34	25°16	24°98
4	24°80	24°62	24°44	24°26	24°08	23°90	23°72	23°54	23°36	23°18
—5	+23°00	+22°82	+22°64	+22°46	+22°28	+22°10	+21°92	+21°74	+21°56	+21°38
6	21°20	21°02	20°84	20°66	20°48	20°30	20°12	19°94	19°76	19°58
7	19°40	19°22	19°04	18°86	18°68	18°50	18°32	18°14	17°96	17°78
8	17°60	17°42	17°24	17°06	16°88	16°70	16°52	16°34	16°16	15°98
9	15°80	15°62	15°44	15°26	15°08	14°90	14°72	14°54	14°36	14°18
—10	+14°00	+13°82	+13°64	+13°46	+13°28	+13°10	+12°92	+12°74	+12°56	+12°38
11	12°20	12°02	11°84	11°66	11°48	11°30	11°12	10°94	10°76	10°58
12	10°40	10°22	10°04	9°86	9°68	9°50	9°32	9°14	8°96	8°78
13	8°60	8°42	8°24	8°06	7°88	7°70	7°52	7°34	7°16	6°98
14	6°80	6°62	6°44	6°26	6°08	5°90	5°72	5°54	5°36	5°18
—15	+5°00	+4°82	+4°64	+4°46	+4°28	+4°10	+3°92	+3°74	+3°56	+3°38
16	+3°20	+3°02	+2°84	+2°66	+2°48	+2°30	+2°12	+1°94	+1°76	+1°58
17	+1°40	+1°22	+1°04	+0°86	+0°68	+0°50	+0°32	+0°14	—0°04	—0°22
18	—0°40	—0°58	—0°76	—0°94	—1°12	—1°30	—1°48	—1°66	—1°84	—2°02
19	—2°20	—2°38	—2°56	—2°74	—2°92	—3°10	—3°28	—3°46	—3°64	—3°82
—20	—4°00	—4°18	—4°36	—4°54	—4°72	—4°90	—5°08	—5°26	—5°44	—5°62
21	5°80	5°98	6°16	6°34	6°52	6°70	6°88	7°06	7°24	7°42
22	7°60	7°78	7°96	8°14	8°32	8°50	8°68	8°86	9°04	9°22
23	9°40	9°58	9°76	9°94	10°12	10°30	10°48	10°66	10°84	11°02
24	11°20	11°38	11°56	11°74	11°92	12°10	12°28	12°46	12°64	12°82
—25	—13°00	—13°18	—13°36	—13°54	—13°72	—13°90	—14°08	—14°26	—14°44	—14°62
26	14°80	14°98	15°16	15°34	15°52	15°70	15°88	16°06	16°24	16°42
27	16°60	16°78	16°96	17°14	17°32	17°50	17°68	17°86	18°04	18°22
28	18°40	18°58	18°76	18°94	19°12	19°30	19°48	19°66	19°84	20°02
29	20°20	20°38	20°56	20°74	20°92	21°10	21°28	21°46	21°64	21°82
	°0	°1	°2	°3	°4	°5	°6	°7	°8	°9

**CALCUTTA**

**SUPERINTENDENT GOVERNMENT PRINTING, INDIA**

**8, HASTINGS STREET**